SYSTEM SCHEMATICS

A3000

APRIL, 1990

PN-314677-02

Commodore

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A3000

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Commodore Business Machines, Inc.
1200 Wilson Drive, West Chester, Pennsylvania 19380 U.S.A.

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A3000 FUNCTIONAL SPECIFICATION

INTRODUCTION

The A3000 is a cost reduced version of the A2500 personal computer. These cost reductions are achieved by extensive use of in-house gate array technology, superior packaging and reduced power consumption. Visually, the A3000 is rendered in a low profile, small footprint case is used with a detached keyboard.

FEATURES

The objectives (features are:)

- 16 Mhz 68030 based CPU w/ 68881 optional (Optionally a 25 Mhz 68030 w/ 68882).
- 1 Meg of Chip Ram, expandable on board to 2 Meg. (32 bit access to CPU).
- 1 Meg of 32 bit wide Fast Ram, (expandable on board to 16 Meg).
- Kickstart in 32 bit ROM (512K).
- Integral 3.5 inch Hard Disk & SCSI controller
- Facilities for 2 3.5 inch floppies.
- Real Time Clock.
- Facilities for on board de-interlacer/scan doubler.
- 4 100 pin Amiga slots, 2 of which are in line with PCAT slots, and one of which is in line with a new formfactor video slot.

The height and width of the A2000 casework has been replaced by a smaller footprint low profile case. The external floppy expansion disk connector has been replaced with the SCSI connector. The fan shall be less noisy than that on the A2000.

WHAT'S ADDED

The system now has a 68030 running with 32 bit wide RAM, and 32 bit wide ROM. An on board SCSI controller provides support for the optional internal hard disk drive, as well as a host of external peripherals such as optical disk drives, etc. 32 bit access to chip memory is provided.

CUSTOM CHIPS

The A3000 CPU will require the use of more custom integrated circuitry than any previous Commodore product. In addition to the 3 chip Amiga chipset, there are 5 new custom chips.

These include the system glue chip (FATGARY), a new expansion buss controller (FATBUSTER), a new ram controller with DMA support (RAMSEY), a new improved disk IO controller (SDMAC), and the D-interlacer gate array controller part (AMBER).

FATGARY

As the name implies, this chip is a larger version of the gary chip originally used in the A500 CPU design. Fat gary provides chip select and DASCK support for motherboard resources such as the 8520's, RTC, chipram, roms and SDMAC.

FATBUSTER

Fat Buster is a new, larger version of the A2000 chip of the same name. As before, it is responsible for expansion buss control and arbitration. However, the new buster also maps 32 bit 68030 memory cycles onto standard A2000 16 bit expansion buss cycles. Fat Buster also provides extensions to the standard A2000 16 bit buss protocol which allow full 32 bit address and data DMA to occur to and from expansion cards. Thus FATBUSTER allows us to mix and match existing 16 bit A2000 expansion cards, and a new 32 bit card format on the same expansion buss in a wholly compatible manner.

RAMSEY

RAMSEY is a dual function chip. It provides support for up to 16 megabytes of on board 32 bit wide ram, and provides address generation support for the super DMAC.

SDMAC

SDMAC is a new improved version of the 4701 series of disk & SCSI DMA controllers. SDMAC allows us to provide 32 bit Direct Disk DMA. It is felt that this will yield greatly improved system throughput for large applications, or disk intensive operating systems.

AMBER

Amber is the name of the Display Enhancer controller gate array. This device, in conjuction with some specialized video memories, effectively provides a D-interlacer at low cost.

SYSTEM IO

The IO capabilities of the A3000 are as follows:

EXTERNAL SYSTEM IO

Serial/Parallel/Mouse/Joystick/Keyboard/Stereo Audio ports

These ports remain unchanged from their A2000 counterparts.

SCSI connector

This connector is the same as that found on the back of the 2091 series of hard disk controllers. It allows communication to a variety of devices including hard disks, optical drives and laser printers.

Video & VGA connectors

As in all Amigas, the A3000 supplies the standard 23 pin video connector. In addition, the on board D-interlacer provides a standard 15 pin VGA connector.

INTERNAL SYSTEM IO

The following connectors comprise the internal IO capabilities of the A3000.

- SCSI hard drive ribbon cable header
- 4 Amiga slots
  - 2 — PC/AMIGA bridge slots
  - 1 — Amiga slot colinear with video expansion
  - 1 — 1 Amiga only slot
- Socketed chip memory expansion good for upgrade from 1 to 2 meg of chip.
- Socketed fast RAM expansion for upgrade from 1 to 16 Meg.

MEMORY MAP

The A3000 makes use of the full 32 bit addressing capability of the MC68030. In the lower 16 Meg, (the only region addressable by the 68000), the memory map is basically unchanged from that of the A2000.

$000000-	$1FFFFF	Up to 2 Megs of Chip Memory
$200000-	$9FFFFF	Auto Config Expansion space
$A00000-	$BFFFFF	IO Space (8520s)
$C00000-	$D7FFFF	Location of A500 Magic $C00000 memory. Unused in this machine.
$D80000-	$D9FFFF	Custom chip register mirror or real time clock.
$DA0000-	$DBFFFF	Unused.
$DC0000-	$DDFFFF	Real Time Clock.
$DE0000-	$DFFFFF	Custom chip registers.
$E00000-	$E80000	Unused.
$E80000-	$E8FFFF	Autoconfig slot.
$E90000-	$EFFFFF	64k autoconfig slots.
$F00000-	$FFFFFF	Rom space.
$01000000-	$07FFFFFF	On board 32 bit ram space. This grows down from $07FFFFFF.
$08000000-	$0FFFFFFF	32 bit ram expansion space. This grows up from $08000000.
$10000000-	$EFFFFFFF	32 bit 'other' expansion space.

Commodore International Spare Parts List
SHIPPING ASSEMBLIES

Commodore part numbers are provided for reference only and do not indicate the availability of spare parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally. Part number information may vary according to country, some parts may not be available in all countries. Part Numbers are subject to change, see Parts (Section 2) of current Techtopics for current numbers.

313276-01	A3000 SHIPPING ASSY (USA) 16 MHZ
363327-01	BOX PACKING CPU
320408-04	BAG FLAT 650 X 650 MM
318992-01	PACKING END CAP
318993-01	PACKING SPACER
318170-01	CARD READ THIS FIRST
316840-01	LABEL UPC
313278-02	MAIN ASSY (NTSC 110V) 16MHZ
903508-15	CORD POWER
327124-03	MOUSE ASSY
313323-02	KEYBOARD A3000 (U.S.)
327273-02	MANUAL, BASIC
363303-01	MANUAL, USER
380426-01	FOAM NEOPOLEN SET (USE W/KEYBD)
251006-02	BAG FLAT 580MM X 350 MM (USE W/KEYBD)
324257-01	BAG DRYING AGENT
324252-07	TAPE ADHESIVE TRANSPARENT 50MM
315929-01	SOFTWARE SUB ASSY A3000 U.S.

313276-02	A3000 SHIPPING ASSY (CANADA) 16 MHZ
363327-01	BOX PACKING CPU
320408-04	BAG FLAT 650 X 650 MM
318992-01	PACKING END CAP
318993-01	PACKING SPACER
318170-01	CARD READ THIS FIRST
316840-01	LABEL UPC
313278-02	MAIN ASSY (NTSC 110V) 16MHZ
903508-15	CORD POWER
327124-02	MOUSE ASSY
313323-02	KEYBOARD A3000 (U.S.)
327273-02	MANUAL, BASIC
363303-01	MANUAL, USER
380426-01	FOAM NEOPOLEN SET (USE W/KEYBD)
251006-02	BAG FLAT 580MM X 350 MM (USE W/KEYBD)
324257-01	BAG DRYING AGENT
324252-07	TAPE ADHESIVE TRANSPARENT 50MM
315929-02	SOFTWARE SUB ASSY A3000 CANADA

313276-03	A3000 SHIPPING ASSY (USA) 25 MHZ
363327-01	BOX PACKING CPU
320408-04	BAG FLAT 650 X 650 MM
318992-01	PACKING END CAP
318993-01	PACKING SPACER
318170-01	CARD READ THIS FIRST
316840-02	LABEL UPC 25 MHZ
313278-04	MAIN ASSY (NTSC 110V) 25MHZ
903508-15	CORD POWER
327124-02	MOUSE ASSY
313323-02	KEYBOARD A3000 (U.S.)
327273-02	MANUAL, BASIC
363303-01	MANUAL, USER
380426-01	FOAM NEOPOLEN SET (USE W/KEYBD)
251006-02	BAG FLAT 580MM X 350 MM (USE W/KEYBD)
324257-01	BAG DRYING AGENT
324252-07	TAPE ADHESIVE TRANSPARENT 50MM
315929-01	SOFTWARE SUB ASSY A3000 U.S.

313276-04	A3000 SHIPPING ASSY (CANADA) 25 MHZ
363327-01	BOX PACKING CPU
320408-04	BAG FLAT 650 X 650 MM
318992-01	PACKING END CAP
318993-01	PACKING SPACER
318170-01	CARD READ THIS FIRST
316840-02	LABEL UPC 25 MHZ
313278-04	MAIN ASSY (NTSC 110V) 25 MHZ
903508-15	CORD POWER
327124-02	MOUSE ASSY
313323-02	KEYBOARD A3000 (U.S.)
327273-02	MANUAL, BASIC
363303-01	MANUAL, USER
380426-01	FOAM NEOPOLEN SET (USE W/KEYBD)
251006-02	BAG FLAT 580MM X 350 MM (USE W/KEYBD)
324257-01	BAG DRYING AGENT
324252-07	TAPE ADHESIVE TRANSPARENT 50MM
315929-02	SOFTWARE SUB ASSY A3000 CANADA

313276-05	A3000 SHIPPING ASSY 100MB (USA) 25 MHZ
363327-01	BOX PACKING CPU
320408-04	BAG FLAT 650 X 650 MM
318992-01	PACKING END CAP
318993-01	PACKING SPACER
318170-01	CARD READ THIS FIRST
316840-02	LABEL UPC 25 MHZ
313278-04	MAIN ASSY (NTSC 110V) 25MHZ
903508-15	CORD POWER
327124-02	MOUSE ASSY
313323-02	KEYBOARD A3000 (U.S.)
327273-02	MANUAL, BASIC
363303-01	MANUAL, USER
380426-01	FOAM NEOPOLEN SET (USE W/KEYBD)
251006-02	BAG FLAT 580MM X 350 MM (USE W/KEYBD)
324257-01	BAG DRYING AGENT
324252-07	TAPE ADHESIVE TRANSPARENT 50MM
315929-01	SOFTWARE SUB ASSY A3000 U.S.

313276-06	A3000 SHIPPING ASSY 100MB (CANADA) 25 MHZ
363327-01	BOX PACKING CPU
320408-04	BAG FLAT 650 X 650 MM
318992-01	PACKING END CAP
318993-01	PACKING SPACER
318170-01	CARD READ THIS FIRST
316840-02	LABEL UPC 25 MHZ
313278-04	MAIN ASSY (NTSC 110V) 25 MHZ
903508-15	CORD POWER
327124-02	MOUSE ASSY
313323-02	KEYBOARD A3000 (U.S.)
327273-02	MANUAL, BASIC
363303-01	MANUAL, USER
380426-01	FOAM NEOPOLEN SET (USE W/KEYBD)
251006-02	BAG FLAT 580MM X 350 MM (USE W/KEYBD)
324257-01	BAG DRYING AGENT
324252-07	TAPE ADHESIVE TRANSPARENT 50MM
315929-02	SOFTWARE SUB ASSY A3000 CANADA

533000-01	A3000 SHIPPING ASSY (EUROPEAN) 16 MHZ	REV. B
363326-01	BOX PACKING CPU	
320408-04	BAG FLAT 650 X 650 MM	
318992-01	PACKING END CAP	
324257-01	BAG DRYING AGENT	
324252-07	TAPE ADHESIVE TRANSPARENT 50MM	
313278-01	MAIN ASSY (PAL 220V) 16MHZ (40 MB)	

533000-02	A3000 SHIPPING ASSY (EUROPEAN) 25 MHZ	REV. B
363326-01	BOX PACKING CPU	
320408-04	BAG FLAT 650 X 650 MM	
318992-01	PACKING END CAP	
324257-01	BAG DRYING AGENT	
324252-07	TAPE ADHESIVE TRANSPARENT 50MM	
313278-03	MAIN ASSY (PAL 220V) 25MHZ (40 MB)	

533000-03	A3000 SHIPPING ASSY (EUROPEAN) 25 MHZ	REV. B
363326-01	BOX PACKING CPU	
320408-04	BAG FLAT 650 X 650 MM	
318992-01	PACKING END CAP	
324257-01	BAG DRYING AGENT	
324252-07	TAPE ADHESIVE TRANSPARENT 50MM	
313278-05	MAIN ASSY (PAL 220V) 25 MHZ (100 MB)	

313323-01	KEYBOARD ASSY A3000 U.K.
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-01	PCB ASSY KEYBOARD U.K.
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

Commodore International Spare Parts List
SHIPPING ASSEMBLIES *(Continued)*

313323-02	KEYBOARD ASSY A3000 U.S.
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-02	PCB ASSY KEYBOARD U.S.
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-06	CABLE KEYBOARD ASSY II TOROID

313323-03	KEYBOARD ASSY A3000 GERMANY
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-03	PCB ASSY KEYBOARD GERMANY
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

313323-04	KEYBOARD ASSY A3000 ITALY
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-04	PCB ASSY KEYBOARD ITALY
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

313323-05	KEYBOARD ASSY A3000 FRANCE
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-05	PCB ASSY KEYBOARD FRANCE
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

313323-06	KEYBOARD ASSY A3000 SPAIN
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-06	PCB ASSY KEYBOARD SPAIN
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

313323-07	KEYBOARD ASSY A3000 SWISS
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-07	PCB ASSY KEYBOARD SWISS
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

313323-08	KEYBOARD ASSY A3000 DENMARK
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-08	PCB ASSY KEYBOARD DENMARK
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

313323-09	KEYBOARD ASSY A3000 NORWAY
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-09	PCB ASSY KEYBOARD NORWAY
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

313323-10	KEYBOARD ASSY A3000 SWEDEN/FINLAND
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-10	PCB ASSY KEYBOARD SWEDEN/FINLAND
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

313323-11	KEYBOARD ASSY A3000 ICELANDIC
312458-01	HOUSING KEYBOARD TOP
312375-01	HOUSING KEYBOARD BOTTOM
312715-11	PCB ASSY KEYBOARD ICELANDIC
380130-01	FOOT KEYBOARD ADJUSTABLE
380131-01	PLATE SPRING
907272-06	WASHER FLAT 4.3 MM
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380129-01	FOOT PLASTIC
380018-05	CABLE KEYBOARD ASSY II HITEK

533001-01	KEYBOARD SHIPPING ASSY U.K.
313323-01	KEYBOARD ASSY U.K.
316828-01	LABEL CARTON U.K.
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363303-01	MANUAL USER A3000 U.K.
327273-02	MANUAL BASIC ENGLISH
317241-01	DISK ASSY 3.5 WORKBENCH V2.0 U.K.
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
325249-01	CARD WARRANTY U.K.
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-12	CORD POWER BSI MEDIUM BEIGE U.K. AUS
390543-01	TOOL TUNNING

Commodore International Spare Parts List
SHIPPING ASSEMBLIES *(Continued)*

533001-02	KEYBOARD SHIPPING ASSY U.S. (NOT USED)
313323-02	KEYBOARD ASSY U.S.
316827-01	LABEL CARTON U.S.A.
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363303-01	MANUAL USER A3000 U.K.
327273-02	MANUAL BASIC ENGLISH
317954-01	DISK ASSY 3.5 WORKBENCH V2.0 U.S.
317235-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 U.S.
318896-01	CARD SOFTWARE LICENSE AGREEMENT
318903-01	CARD WARRANTY U.S.A.
312341-02	CARD DISK EXCHANGE U.S.A.
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
314877-02	BOOKLET SERVICE CENTER LIST U.S.A.
380720-01	CARD REMINDER DISK & PRINTER CAUTIONS
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-15	CORD POWER MEDIUM BEIGE CSA/U.S.
390543-01	TOOL TUNNING

533001-03	KEYBOARD SHIPPING ASSY GERMANY
313323-03	KEYBOARD ASSY GERMAN
316831-01	LABEL CARTON GERMAN
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363306-01	MANUAL USER A3000 GERMAN
380798-02	MANUAL BASIC GERMAN
317244-01	DISK ASSY 3.5 WORKBENCH V2.0 GERMAN
317236-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 GERMAN
318708-02	CARD PROGRAM LICENSE AGREEMENT GERMAN
320046-06	CARD WARRANTY GERMAN
363316-01	MANUAL WORKBENCH 2.0 GERMAN
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-04	KEYBOARD SHIPPING ASSY ITALY
313323-04	KEYBOARD ASSY ITALY
316830-01	LABEL CARTON ITALY
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363305-01	MANUAL USER A3000 ITALIAN
380798-04	MANUAL BASIC ITALIAN
317243-01	DISK ASSY 3.5 WORKBENCH V2.0 ITALIAN
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363315-01	MANUAL WORKBENCH 2.0 ITALIAN
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-05	KEYBOARD SHIPPING ASSY FRANCE
313323-05	KEYBOARD ASSY FRANCE
316829-01	LABEL CARTON FRANCE
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363304-01	MANUAL USER A3000 FRENCH
380798-03	MANUAL BASIC FRENCH
317242-01	DISK ASSY 3.5 WORKBENCH V2.0 FRENCH
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
325254-01	CARD WARRANTY FRENCH
363314-01	MANUAL WORKBENCH 2.0 FRENCH
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-06	KEYBOARD SHIPPING ASSY SPAIN
313323-06	KEYBOARD ASSY SPAIN
316832-01	LABEL CARTON SPAIN
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363307-01	MANUAL USER A3000 SPANISH
380798-06	MANUAL BASIC SPANISH
317245-01	DISK ASSY 3.5 WORKBENCH V2.0 SPANISH
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363317-01	MANUAL WORKBENCH 2.0 SPANISH
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-07	KEYBOARD SHIPPING ASSY NETHERLANDS
313323-07	KEYBOARD ASSY DUTCH
316836-01	LABEL CARTON DUTCH
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363309-01	MANUAL USER A3000 DUTCH
380798-09	MANUAL BASIC DUTCH
317240-01	DISK ASSY 3.5 WORKBENCH V2.0 INTERNATIONAL
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-08	KEYBOARD SHIPPING ASSY DENMARK
313323-08	KEYBOARD ASSY DENMARK
316835-01	LABEL CARTON DENMARK
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363308-01	MANUAL USER A3000 DANISH
327273-02	MANUAL BASIC ENGLISH
317246-01	DISK ASSY 3.5 WORKBENCH V2.0 DANISH
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-09	KEYBOARD SHIPPING ASSY NORWAY
313323-09	KEYBOARD ASSY NORWAY
316838-01	LABEL CARTON NORWAY
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363310-01	MANUAL USER A3000 NORWEGIAN
327273-02	MANUAL BASIC ENGLISH
317247-01	DISK ASSY 3.5 WORKBENCH V2.0 NORWEGIAN
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

Commodore International Spare Parts List
SHIPPING ASSEMBLIES *(Continued)*

533001-10	KEYBOARD SHIPPING ASSY FINLAND
313323-10	KEYBOARD ASSY SWEDEN/FINLAND
316837-01	LABEL CARTON FINLAND
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363303-01	MANUAL USER A3000 U.K.
327273-02	MANUAL BASIC ENGLISH
317240-01	DISK ASSY 3.5 WORKBENCH V2.0 INTERNATIONAL
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-11	KEYBOARD SHIPPING ASSY SWEDEN
313323-10	KEYBOARD ASSY SWEDEN/FINLAND
316839-01	LABEL CARTON SWEDEN
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363311-01	MANUAL USER A3000 SWEDISH
380798-05	MANUAL BASIC SWEDISH
317248-01	DISK ASSY 3.5 WORKBENCH V2.0 SWEDISH
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-12	KEYBOARD SHIPPING ASSY ICELANDIC
313323-01	KEYBOARD ASSY U.K.
313323-11	KEYBOARD ASSY ICELANDIC
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
327273-02	MANUAL BASIC ENGLISH
317240-01	DISK ASSY 3.5 WORKBENCH V2.0 INTERNATIONAL
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-13	KEYBOARD SHIPPING ASSY BELGIUM
313323-05	KEYBOARD ASSY FRANCE
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363309-01	MANUAL USER A3000 DUTCH
380798-09	MANUAL BASIC DUTCH
317249-01	DISK ASSY 3.5 WORKBENCH V2.0 BELGIUM
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363314-01	MANUAL WORKBENCH 2.0 FRENCH
316833-12	LABEL CARTON BELGIUM
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-11	CORD POWER VDE MEDIUM BEIGE
390543-01	TOOL TUNNING

533001-14	KEYBOARD SHIPPING ASSY CANADA (NOT USED)
313323-02	KEYBOARD ASSY U.S.
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363303-01	MANUAL USER A3000 U.K.
327273-02	MANUAL BASIC ENGLISH
317241-01	DISK ASSY 3.5 WORKBENCH V2.0 U.K.
317235-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 U.S.
318896-01	CARD SOFTWARE LICENSE AGREEMENT
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
380720-01	CARD REMINDER DISK & PRINTER CAUTIONS
316834-01	LABEL CARTON CANADA
318556-02	CARD DISK EXCHANGE CANADA
318882-01	CARD WARRANTY CANADA
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-15	CORD POWER MEDIUM BEIGE CSA/U.S.
390543-01	TOOL TUNNING

533001-15	KEYBOARD SHIPPING ASSY AUSTRALIA
313323-01	KEYBOARD ASSY U.K.
251006-02	BAG FLAT 580 X 350 MM
318243-01	END CAP, KEYBOARD
380425-03	CONTAINER SHIPPING
324252-07	TAPE TRANSPARENT ADHESIVE 50MM
327124-02	MOUSE ASSY
363303-01	MANUAL USER A3000 U.K.
327273-02	MANUAL BASIC ENGLISH
317241-01	DISK ASSY 3.5 WORKBENCH V2.0 U.K.
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V2.0 INTERNATIONAL
363313-01	MANUAL WORKBENCH 2.0 ENGLISH
318884-01	CARD WARRANTY AUSTRALIA
363312-01	MANUAL A3000 QUICK CONNECT GUIDE
903508-12	CORD POWER BSI MEDIUM BEIGE U.K. AUS
390543-01	TOOL TUNNING

315929-01	SOFTWARE SUB ASSY A3000 (U.S.)	REV. C
317954-01	DISKETTE ASSY WORKBENCH 2.0 (ENG)	
317235-01	DISKETTE ASSY AMIGA EXTRAS 2.0 (ENG)	
318237-01	DISK HOLDER	
318611-01	LABEL STOP	
318270-01	CARD WARRANTY (U.S.)	
312341-02	CARD DISK EXCHANGE (U.S.)	
318344-01	BINDER WKB 2.0	
318343-01	SHEET LIFTER	
313312-01	INSERT — A3000 QUICK CONNECT	
363313-01	MANUAL WORKBENCH 2.0 (ENG)	
318896-01	CARD SOFTWARE LICENSE AGREEMENT	
314877-04	BOOKLET SERVICE CENTER LIST	
380720-01	CARD REMINDER DISK/PRINTER CAUTIONS	
318757-16	SHRINK WRAP	
335603-01	DISKETTE ASSY A3000 INSTALL	
390543-01	TOOL TUNNING	

315929-02	SOFTWARE SUB ASSY A3000 (CAN.)	REV. C
317954-01	DISKETTE ASSY WORKBENCH 2.0 (ENG)	
317235-01	DISKETTE ASSY AMIGA EXTRAS 2.0 (ENG)	
318237-01	DISK HOLDER	
318611-01	LABEL STOP	
318882-01	CARD WARRANTY (CAN.)	
318556-02	CARD DISK EXCHANGE (CAN.)	
318344-01	BINDER WKB 2.0	
318343-01	SHEET LIFTER	
313312-01	INSERT — A3000 QUICK CONNECT	
363313-01	MANUAL WORKBENCH 2.0 (ENG)	
318896-01	CARD SOFTWARE LICENSE AGREEMENT	
380720-01	CARD REMINDER DISK/PRINTER CAUTIONS	
318757-16	SHRINK WRAP	
335603-01	DISKETTE ASSY A3000 INSTALL	
390543-01	TOOL TUNNING	

Commodore International Spare Parts List
MAJOR ASSEMBLIES

Commodore part numbers are provided for reference only and do not indicate the availability of spare parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally. Part number information may vary according to country, some parts may not be available in all countries.

MAIN ASSY	REV. B
313278-01	MAIN ASSY PAL 220V 16 MHZ
313278-02	MAIN ASSY NTSC 110V 16 MHZ
313278-03	MAIN ASSY PAL 220V 25 MHZ
313278-04	MAIN ASSY NTSC 110V 25 MHZ
313278-05	MAIN ASSY PAL 220V 25 MHZ 100 MB
313278-06	MAIN ASSY NTSC 110V 25 MHZ 100 MB
313281-01	BASE ASSY PAL 16 MHZ
313281-02	BASE ASSY NTSC 16 MHZ
313281-03	BASE ASSY PAL 25 MHZ
313281-04	BASE ASSY NTSC 25 MHZ
313319-01	DRIVE ASSY HARD (ADD CABLE CONNECTIONS) (40 MB)
313319-02	DRIVE ASSY 100 MB
313318-01	DRIVE ASSY FLOPPY (ADD CABLE CONNECTIONS)
313284-01	BRACKET MOUNTING 3.5 DISK DRIVE
313250-01	CARD EXPANSION PCB ASSY
313299-01	SUPPORT CONNECTOR BOARD
318236-01	INSULATION SHEET BACK PLANE
312996-01	SWITCH ICNOB
313301-01	COVER ASSY
325542-02	SCREW MACH.,W/EXT.TOOTH 4 X 0.7 X 6.0 LG

BASE ASSY	
313281-01	BASE ASSY PAL 16 MHZ
313281-02	BASE ASSY NTSC 16MHZ
313281-03	BASE ASSY PAL 25 MHZ
313281-04	BASE ASSY NTSC 25 MHZ
310080-01	MAIN CHASSIS BASE
313293	BRACKET OPTION CARD
251118-01	GUIDE PCB
906803-05	SCREW FLAT HEAD M3 X 0.5 X 4.0 LG
325542-02	SCREW MACH W/EXT TOOTH M4 X 0.7 X 6.0 LG
906800-05	SCREW MACH M3 X 0.5 X 6.0 LG
390251-03	STANDOFF D CONN
380128-01	FOOT RUBBER SELF STICKING
313294-01	BRACKET MOUSE & KEYBOARD PCB
313303-01	LED HOLDER ASSY
313310-01	PCB ASSY PAL 16 MHZ
313310-02	PCB ASSY NTSC 16 MHZ
313310-03	PCB ASSY PAL 25 MHZ
313310-04	PCB ASSY NTSC 25 MHZ
313310-05	PCB NTSC 25 MHZ 4 MB
313310-06	PCB NTSC 25 MHZ 4 MB
318233-01	INSULATION SHEET
316854-01	LABEL FCC ID
316791-01	LABEL BACK PANEL
311829-02	CABLE SCSI DRIVE
380742-03	CABLE FLOPPY DRIVE
380120-01	CARD PANEL EXTENSION
380739-01	CARD PANEL EXPANSION
313277-01	CARD PANEL EXTENSION - VIDEO ADAPTER
390329-01	SCREW MACH W/EXT TOOTH M3.5 X 0.6 X 5.0 LG
313285-01	BRACKET ASSY MOUNTING 240 V
313285-02	BRACKET ASSY MOUNTING 120 V
390662-01	STANDOFF HEX M/F 6.0 MM

MOUNTING BRACKET ASSY - A3000	
313285-01	BRACKET ASSY MOUNTING 240 VOLT
313285-02	BRACKET ASSY MOUNTING 120 VOLT
313292-01	BRACKET DRIVE & POWER SUPPLY MOUNTING
906800-05	SCREW MACH M3 X 0.5 X 6.0 LG
390500-01	POWER SUPPLY A3000 240 VOLT
390500-02	POWER SUPPLY A3000 120 VOLT

LED HOLDER ASSEMBLY	REV. B
313303-01	LED HOLDER ASSY
313556-01	LED 2.0MM X 10.0MM GREEN LED
313568-01	LED 2.0MM X 10.0MM YELLOW LED
313316-01	LED PCB
903351-01	CONNECTOR HOUSING 5 PINS
903353-01	CONNECTOR PINS
903756-02	LEAD WIRE AWG 24 RED L=75.0MM
903756-10	LEAD WIRE AWG 24 BLACK L=75.0MM

COVER ASSY- A3000	REV. B
313301-01	COVER ASSY
313279-01	COVER TOP
313280-01	BEZEL FRONT
906884-03	SCREW SELF TAPPING M4 X 10.0 LG
313296-01	COVER FLOPPY DRIVE HOLE
310317-03	LENS FLOPPY LED
312995-01	BRACKET GUIDE PWR BUTTON
313298-01	ROD, CONNECTING
313297-01	BUTTON, POWER
312997-01	CABLE CLIP

3.5 HARD DISK DRIVE CABLE ASSY	
311829-01	CABLE ASSY 3.5 HARD DISK DRIVE
311829-02	CABLE ASSY 3.5 HARD DISK DRIVE
903468-07	CONNECTOR SOCKET 50 POS
903134-11	CABLE FLAT 50 POS X 520.0 ± 5.0 MM LG

DRIVE CABLE ASSY II A3000	
380742-03	CABLE ASSY DRIVE
903135-10	CABLE FLAT 34 POS L=570MM
903468-05	CONN DUAL ROW 34P
380328-01	PLUG KEYING

HARD DRIVE SUB ASSY	REV. B
313319-01	DRIVE SUB ASSY (40 MB)
313319-02	DRIVE SUB ASSY (105 MB)
313440-01	DRIVE ASSY HARD DISK 40 MB SCSI (QUANTUM PRODRIVE 40S)
311836-04	DRIVE ASSY SCSI 400 MB (QUANTUM PRODRIVE 105S)
311836-03	DRIVE ASSY HARD 105 MB (QUANTUM LP)
313256-01	BRACKET MOUNTING (105 MB)
906610-01	SCREW MACH #6 - 32 X ¼
313314-01	BRACKET MOUNTING 3.5 HDD (40 MB)

FLOPPY DRIVE SUB ASSY	
313318-01	DRIVE ASSY, FLOPPY (SUBASSEMBLY)
313315-01	DRIVE 3.5 FLOPPY DISK
313284-01	BRACKET MOUNTING 3.5 DISK DRIVE
325541-03	SCREW MACH W/EXT TOOTH M3 X 0.5 X 8.0 LG

Commodore International Spare Parts List
PCB Components
PCB Assembly #313310 — REV. D, PCB 7.0

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IC COMPONENTS		
901882-01	1488	U304
901883-01	1489	U305
390668-02	514258, 256X4 80 NS DRAM STATIC COL DIP	U259-266,U850D-U857D
390668-01	514258, 256X4 STATIC COL DRAM 80 NS	SUB: U259-U266
318099-02	414256 100 NS DRAM	SUB: U259-U266
901522-30	7407	U713,U801
390420-01	74ALS163	U476
390110-01	74F04	U204,U711
390203-01	74F08	U303,U710
390108-01	74F373	U251
390089-01	74F245	U702,U708,U709,U715, U716,U257,U258,U891-U894
390077-01	74F32	U712
390281-01	74F646	U253-U256,U703-U707
390081-01	74F74	U106
310001-01	74HC14	U477
318828-01	74HCT244	U451-U452
901521-03	74LS08	U355
901521-11	74LS157	U401
901521-63	74LS174	U195,U354
390198-01	74F86	U252
901521-01	74LS00	U353
901521-06	74LS74A	U201,U351,U480
318069-03	8372 FAT AGNUS 2 MEG	U205
318029-02	8520	U300,U350
390538-03	AMBER	U478
390433-01	8373 ECS DENISE	U450
390537-02	DMAC	U802
390539-02	FAT BUSTER	U700
390540-02	FAT GARY 4141F008A	U110
390530-01	MSM 514221RS-6	U470-U472
390086-01	LF347	U402
390399-03	MC68030 16 MHZ QFP	U100
390277-03	MC68881 16 MHZ PLCC	U101
390399-04	MC68030 25 MHZ QFP	U100
390434-02	MC68882 25 MHZ PLCC	U101
390531-01	NE564	U481
252127-01	PAULA	U400
390532-01	UPD 42101C-2	U473-U475,U479
390206-01	WD33C93	U800
328156-02	PST518	U112
390541-04	RAM CONTROLLER	U890
390525-01	RP5C01	U190
390630-01	ROM V2.0 32 BIT HIGH WORD	U181
390629-01	ROM V2.0 32 BIT LOW WORD	U180
390555-01	DELAY LINE 25 NS	U102
390526-02	PAL PROG 16L8D	U202
390527-02	PAL PROG 16L8D	U203
390528-02	PAL PROG 16R4A	U701
390529-03	PAL PROG 16L8D	U714
OSCILLATORS		
252344-01	28.375 MHZ (PAL)	U111
325566-14	28.6363 MHZ (NTSC)	U111
325566-24	32 MHZ	U104
325566-27	50 MHZ	U104
	OSC	U103 UNSTUFFED
RESISTOR PACKS		
326149-01	22 OHM 4 X 8	RP700,RP890,RP891
326149-04	47 OHM 4.X 8	RP252-254,RP451,RP452
326149-06	63 OHM 4 X 8	RP401
902410-11	470 OHM 9 X 10	RP256
902441-22	1K OHM 5 X 6	RP600,RP601,RP702
902410-08	4.7K OHM 9 X 10	RP400
390227-03	22 OHM 5 X 10	RP892,RP893
902410-06	3.3K OHM 5 X 10	RP350,RP800,RP801
390227-06	47 OHM 5 X 10	RP201,RP251,RP255
902410-10	RPK 1K OHM 9 X 10	RP100-RP110,RP351, RP703

RESISTOR PACKS *(Continued)*		
902441-31	RPK 4.7K OHM 5 X 6	RP453-RP455
902422-22	1K OHM 7 X 8	RP609,RP610,RP180
902441-17	470 OHM 5 X 6	RP701
RESISTORS 5% @ ¼ WATT, CARBON FILM, UNLESS OTHERWISE SPECIFIED		
901550-118	1 OHM	R400,R478,R479
901550-17	1.2K OHM	R401,R402
901550-64	10 OHM	R403,R404,R484
901550-20	10K OHM	R191,R305,R306,R405, R406,R408,R431,R432, R441,R442,R451,R452, R454
901550-137	91 OHM	R489
901550-01	1K OHM	R302,R433,R443,R482, R483,R487,R803,R805
901550-23	2.7K OHM	R407
901550-112	200 OHM	R301
901550-02	3.3K OHM	R110,R112
901550-105	33 OHM	R472,R473,R475-R477, R896
901550-108	360 OHM	R430,R440
901550-57	390 OHM	R434,R444
901550-19	4.7K OHM	R203
901550-56	47 OHM	R202,R204,R895
901550-58	470 OHM	R190,R192,R699
901550-82	470K OHM	R435,R445
901550-131	56 OHM	R300
901550-94	68 OHM	R307
901550-114	9.1K OHM	R480
901550-63	22 OHM	R100-R101,R106,R109, R450,R809
901550-07	100K OHM	R193
901600-36	1 OHM ½W 5% CARBON	R420
901600-15	47 OHM ½W 5% CARBON	R353
	UNSTUFFED RESISTOR	R409
CAPACITORS		
900022-01	.22 UF RAD	C457
900019-36	10 PF NPO RADIAL	C499
900019-37	39 PF RAD	C497
900019-38	100 PF NPO RAD	C496,C498
900462-20	20 PF AXIAL	C192
900462-29	47 PF AXIAL	C458
900462-31	56 PF AXIAL	C193
900462-37	100 PF NPO AXIAL	C420-C422,C459,C491, C496,C498
900463-08	220 PF AXIAL	C108,C109
900463-23	3900 PF AXIAL	C432,C442
900463-26	6800 PF AXIAL	C431,C441
900463-28	.01 UF AXIAL	C103,C104,C161,C170, C172,C174,C176,C177, C402
900463-36	.047 UF AXIAL	C411-C414
900462-27	39 PF AXIAL	C497
390082-01	.1 UF AXIAL MLC	C102,C106,C111,C191, C195,C201-C205,C251-C253,C255,C258,C300, C305,C350-C355,C362, C400,C401,C409,C410, C415,C434,C444,C451-C452,C470-C482,C484-C486,C489,C490,C494, C495
390082-05	.22 UF AXIAL MLC	C455,C456,C700-C704, C706-C716,C100,C101, C110,C180-C183,C403, C405,C406,C450
390082-04	.33 UF AXIAL MLC	C800,C801,C850-C873, C890-C894
900402-13	1.0 UF RADIAL TANT	C487,C488
390101-05	4.7 UF RADIAL ELECTROLYTIC	C190,C404

Commodore International Spare Parts List
PCB Components *(Continued)*
PCB Assembly #313310

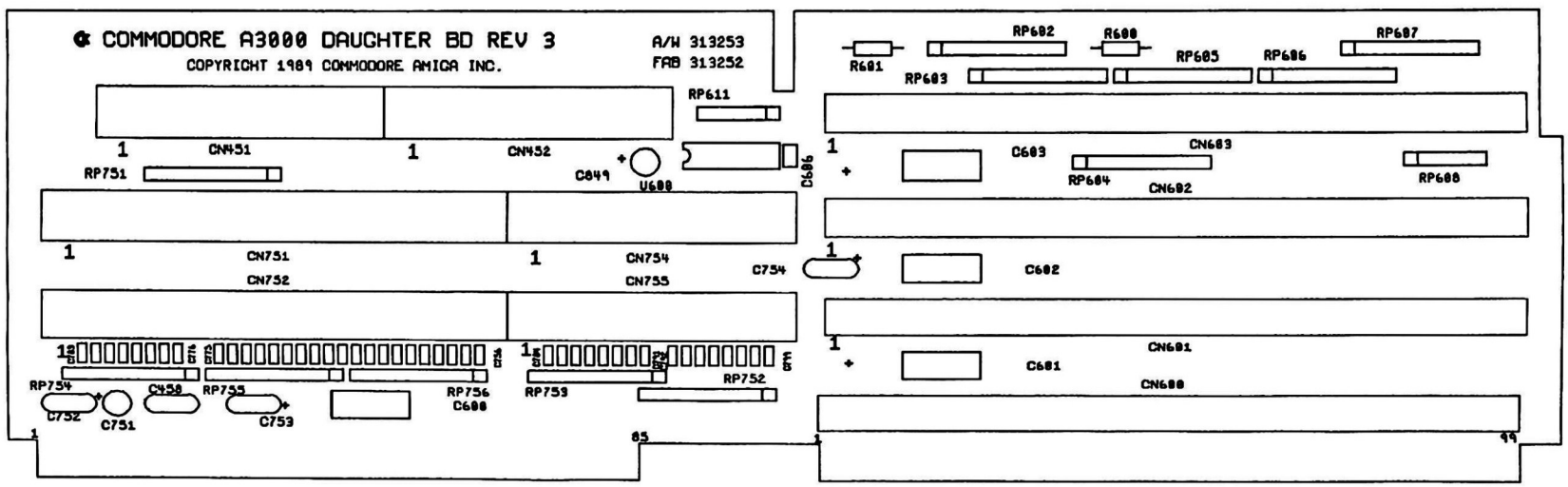
CAPACITORS *(Continued)*		
900402-01	10 UF RADIAL TANT	C483
390101-04	22 UF RADIAL ELECTROLYTIC	C105,C107,C113,C317, C318,C433,C443
390101-01	47 UF RADIAL ELECTROLYTIC	C112,C162-C169,C171, C173,C175,C407,C408, C899
390101-02	100 UF RADIAL ELECTROLYTIC	C178
390101-03	470 UF RADIAL ELECTROLYTIC	C160,C416,C423,C454, C460,C492,C493
	UNSTUFFED RESERVED CAPACITORS	C307,C308,C430,C440
CONNECTORS		
252166-03	KEYBOARD CONNECTORS	CN420
390557-01	200 PIN RECEPTACLE	CN606
903345-17	34 PIN DIL	CN351
903345-25	50 PIN	CN802
903374-03	3 PIN SIL RA	CN302
903446-06	CONN 100	CN600
252122-01	RCA JACK WHITE	CN402
390334-01	DB15 VGA	CN480
390242-03	D-SUB 23P MALE PCB	CN450
390242-05	D SUB 25P MALE PCB	CN300
390242-01	D SUB 9P MALE PCB	CN400,CN401
903446-05	85P EDGE DIL86	CN451
390625-01	DUAL DB25 FEMALE DP25S	CN350,CN801
390542-01	POW15	CN160
252122-02	RCA JACK RED	CN403
327033-04	D SUB 23 PIN FEMALE PCB	CN352
MISCELLANEOUS		
380393-01	BATTERY NICAD 3.6V 60 MAH	BT190
390536-01	SWITCH, S.P.S.T. TOGGLE RA	SW480
900750-01	DIODE 1N4001	D192,D193
900850-01	DIODE 1N4148	D190,D191,D300,D800
251842-02	EMI FILTERS 3 PIN	EM1300-EM1309, EM1350-EM1364, EM1430-EM1436, EM1440-EM1442, EM1444-EM1446, EM1450,EM1451, EM1453-EM1456, EM1458,EM1459, EM1490-EM1494

MISCELLANEOUS *(Continued)*		
390280-01	FUSE 3A	F300,F350,F351,F400, F450
903025-01	FERRITE BEAD	FB110,FB111,FB400, FB401,FB420-FB422, FB480-FB487
252214-01	FERRITE BEAD	EM1469
903326-03	HEADER SIL .100	J101,J102,J104,J151, J152,J180,J200,J350-J352,J481-J483,J800, J851,J852,J853
903326-04	HEADER SIL .100 1 X 4	J100,J103
390229-01	IC VIDEO HYBRID	HY450,HY480
902410-11	RESISTOR PACK, 470 OHM 9 X 10	RP256
902442-06	RESISTOR PACK, 68 OHM 4 X 8	RP401
904150-06	SOCKET 40 PIN DIP	U180,U181,U300,U350, U800
251313-01	SOCKET 48 PIN DIP	U400,U450
390185-01	SOCKET 84 PIN PIN PLCC	U890,U110,U205,U700, U802
390185-02	SOCKET 68 PIN PLCC	U478
904150-01	SOCKET 14 PIN DIP .300	U103
904150-08	SOCKET 20 PIN DIP .300	U202,U203,U267-U274, U701,U714,U850-U881
390724-01	SOCKET 8 PIN SIL	RP802-RP804
904150-06	SOCKET 40 PIN DIP	U180,U181,U300,U350, U800
390723-01	SOCKET 20 PIN ZIP	U850-U881
390043-01	SHUNT PACK DIP	J100-J104,J151,J152, J180,J181,J200,J350-J352,J481-J483,J800, J801,J851-J853
251029-07	CAP VAR 3-11 PF	VC470
251029-06	CAP VAR 22-47 PF	VC190
390546-01	RES VAR 1K 15 TURN	VR470
900560-01	CRYSTAL 32768HZ	Y190
390192-01	TRANSISTOR 2N3904	Q300
902707-01	TRANSISTOR 2N3906	Q400
390252-01	TRANSISTOR MPF102	Q430,Q440

Commodore International Spare Parts List
A3000 Daughter Board
PCB Assembly #313250-01

IC COMPONENTS		
380227-01	74HCT32	U600
RESISTOR PACKS		
902441-22	SIP 1K 5 RES 6 PIN	RP611
902410-10	SIP 1K 9 RES 10 PIN	RP752-RP756
380388-01	SIP 220/330 4 RES 6 PIN	RP608
380388-04	220/330 8 RES 10 PIN	RP602-RP607
902410-08	SIP 4.7K 9 RES 10 PIN	RP751
RESISTORS, ¼ WATT		
901550-58	470 OHM	R601
901550-01	1K OHM	R600

CAPACITORS		
390082-01	CER AXL .1 UF	C606
390082-05	CER AXL .22 UF	C752-C754,C849
900014-02	CER RAD 1000 PF	C756-C799
900101-47	ELEC AXL 220 UF 16V	C600-C603
390101-04	ELEC RAD 22 UF 16V	C751
900462-29	CER AXL 47 PF 50V	C458
CONNECTORS		
903446-06	CARD EDGE 100 PIN	CN600-CN603
903446-04	CARD EDGE 36 PIN	CN451,CN452,CN754, CN755
903446-02	CARD EDGE 62 PIN	CN751,CN752



A3000 DAUGHTER BOARD, REV. 3

A3000 SCHEMATIC #313311, REV. D — SCHEMATIC PAGE INDEX

Sheet 1 of 18

TITLE	SHEET	PAGE
A3000 SCHEMATIC PAGE INDEX	1 of 18	11
PCB LAYOUT, JUMPER SETTINGS	2 of 18	12
68030 CPU, 68881 FPU	3 of 18	13
GARY	4 of 18	14
ROM, RTC	5 of 18	15
8372 FAT AGNUS	6 of 18	16
CHIP RAM	7 of 18	17
8520, SERIAL CONN	8 of 18	18
8520, PARALLEL CONN, FLOPPY CONN	9 of 18	19
PAULA, MOUSE CONN	10 of 18	20
DENISE, VIDEO PORT	11 of 18	21
AMBER, VGA CONN	12 of 18	22
EXPANSION SLOTS	13 of 18	23
(RESERVED FOR FUTURE USE)	14 of 18	24
CO-PROCESSOR SLOT (FAST SLOT)	15 of 18	25
FAT BUSTER	16 of 18	26
DMAC, WD33C93A HDC, SCSI (INT), SCSI (EXT)	17 of 18	27
RAMSEY, FAST RAM	18 of 18	28

DAUGHTER BOARD SCHEMATICS #313251, REV. A

EXPANSION SLOTS (AMIGA)	1 of 2	29
EXPANSION SLOTS (XT/AT)	2 of 2	30

JUMPER SETTINGS

JUMPER	PINS	313311 -01	313311 -02	313311 -03	313311 -04	FUNCTION
J100	4	2-3	2-3	1-2	1-2	Quadrature Clock Phasing
J102	3	2-3	2-3	2-3	2-3	System Clock Source
J103	4	2-3	2-3	2-3	2-3	FPU CS/BERR
J104	3	1-2	1-2	1-2	1-2	CPU Clock Source
J200	3	1-2	2-3	1-2	2-3	NTSC/PAL Select
J151	3	2-3	2-3	1-2	1-2	Rom Timing
J152	3	2-3	2-3	1-2	1-2	Rom Timing
J180	3	2-3	2-3	2-3	2-3	A2000 ROM Compatibility Jumpers
J181	3	2-3	2-3	2-3	2-3	A2000 ROM Compatibility Jumpers
J350	3	1-2	1-2	1-2	1-2	Tick Clock Source
J351	3	2-3	2-3	2-3	2-3	Disable DF1: (1-2 to enable)
J352	3	2-3	2-3	2-3	2-3	Light Pen Source
J481	3	2-3	2-3	2-3	2-3	VDE Scan Double Only Jumper
J482	3	1-2	1-2	1-2	1-2	VDE PLL Loop Adjust
J483	3	---	---	---	---	VDE Factory Test Points
J851	3	1-2	1-2	2-3	2-3	RAM Controller Speed Jumper
J852	3	2-3	2-3	2-3	2-3	Dram Type (4 Mbit vs 1 Mbit)

Notes:

J150,J151: Rom Timing

The rom timing circuit provides four different speed settings to match the output enable, and access timing of the system roms.

To set the jumpers, determine the output enable time, and access times for the roms you wish to use. The rom must have lower values than for the setting you select.

System standard roms have Toe = 110 ns, and Tacc = 250 ns.

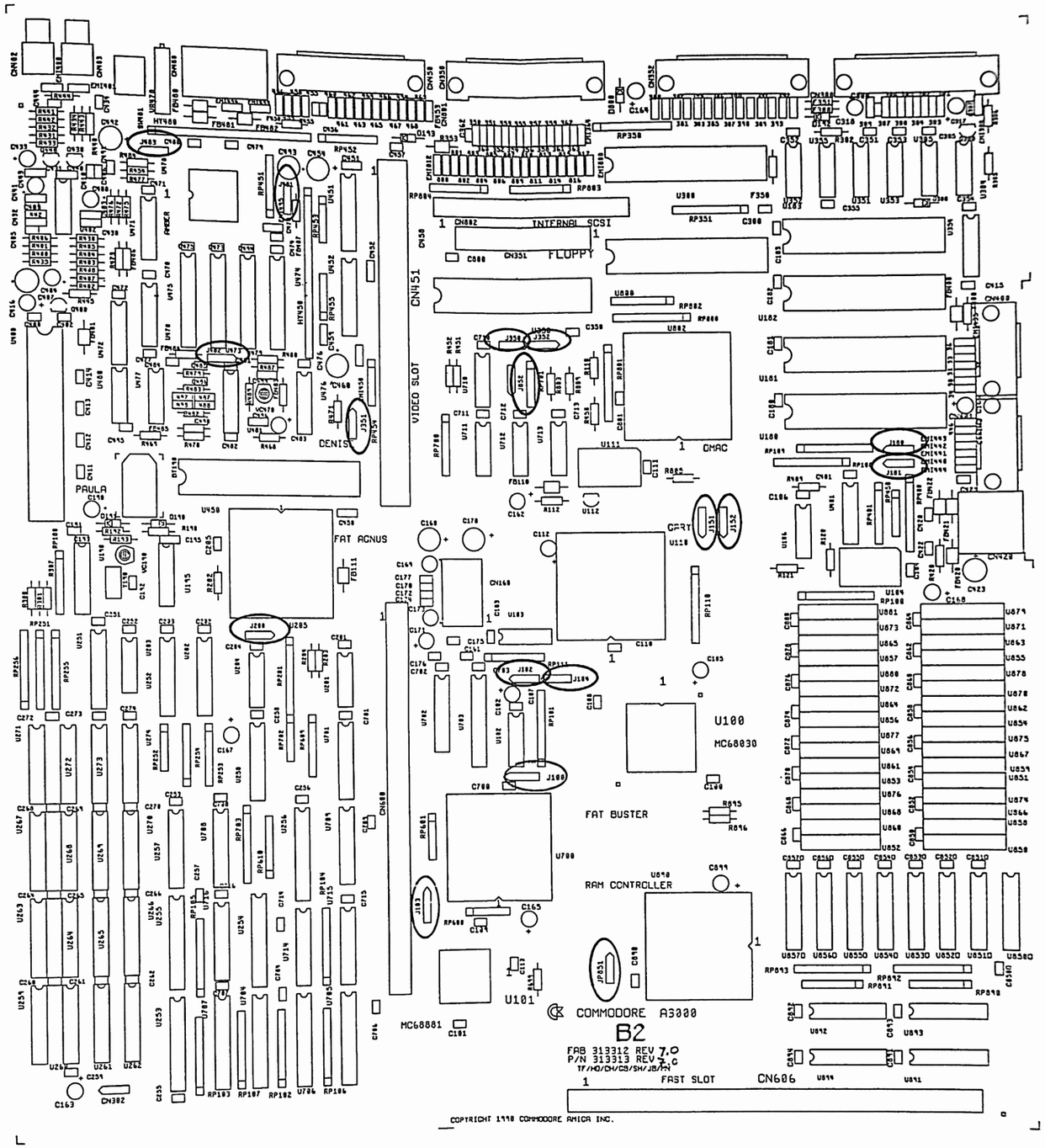
CLK	J151	J150	Toe (min)	Tacc (min)
16 Mhz	2-3	2-3	157 ns	250 ns
16 Mhz	2-3	1-2	220 ns	312 ns
16 Mhz	1-2	2-3	282 ns	375 ns
16 Mhz	1-2	1-2	345 ns	437 ns
25 Mhz	2-3	2-3	90 ns	160 ns
25 Mhz	2-3	1-2	130 ns	200 ns
25 Mhz	1-2	2-3	170 ns	240 ns
25 Mhz	1-2	1-2	210 ns	280 ns

J180,J181: Rom Compatibility Jumpers

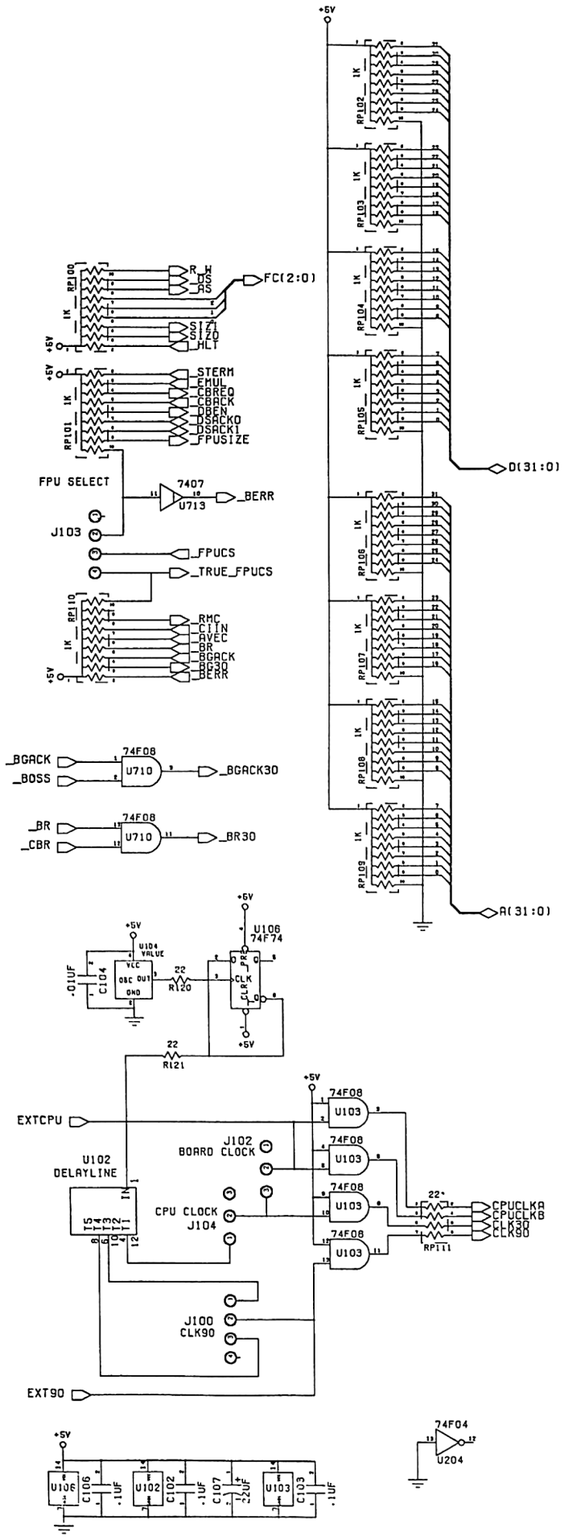
	J180	J181
A2000/A500 ROMS:	1-2	1-2
A3000 ROMS:	2-3	2-3

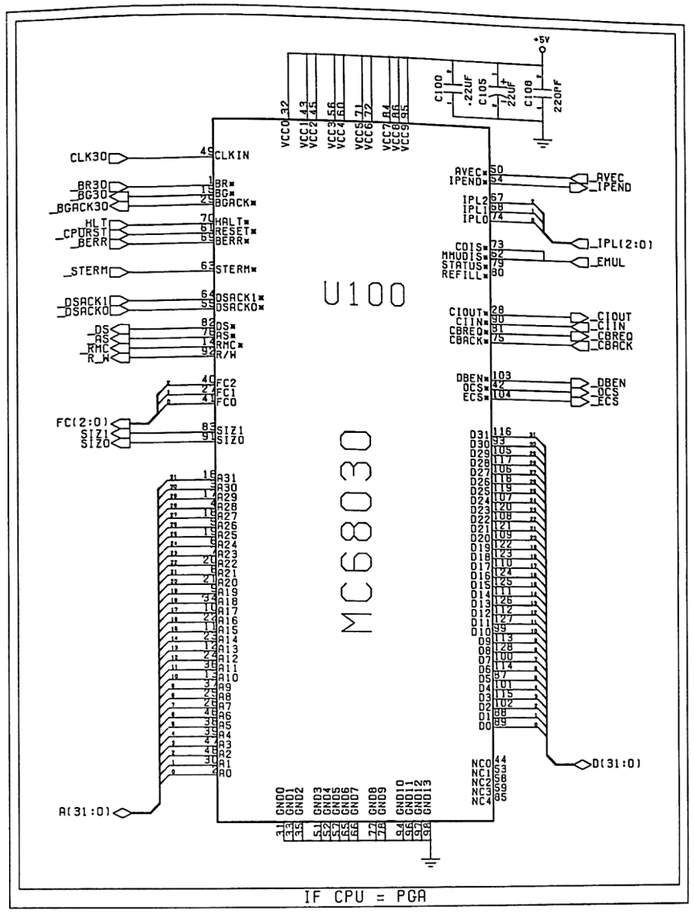
J852: Ram Controller Compatibility Setting

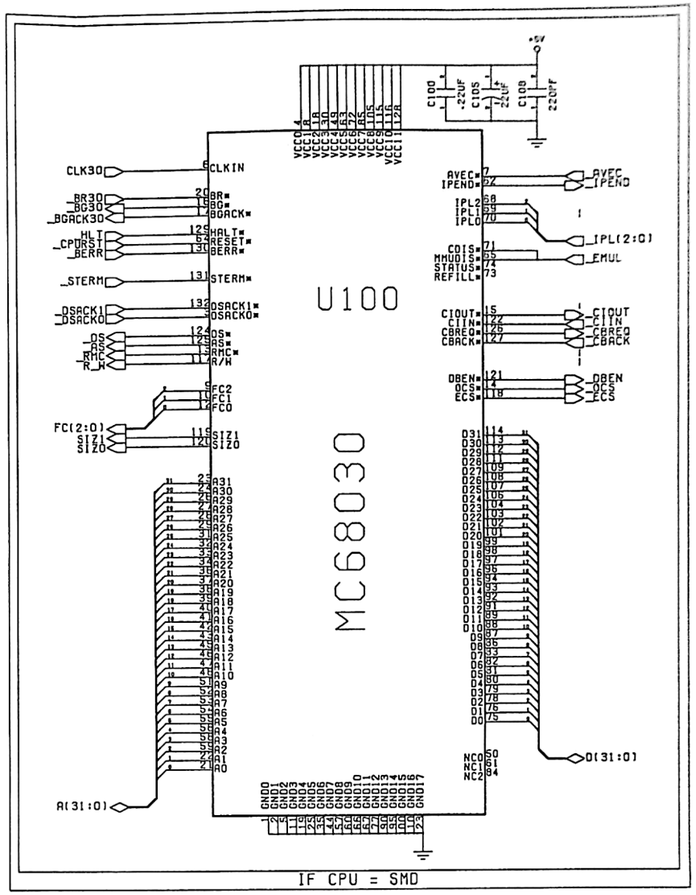
	J852
Ramseys w/ 256Kx4 rams	2-3
Ramseys w/ 1Mx4 rams	1-2

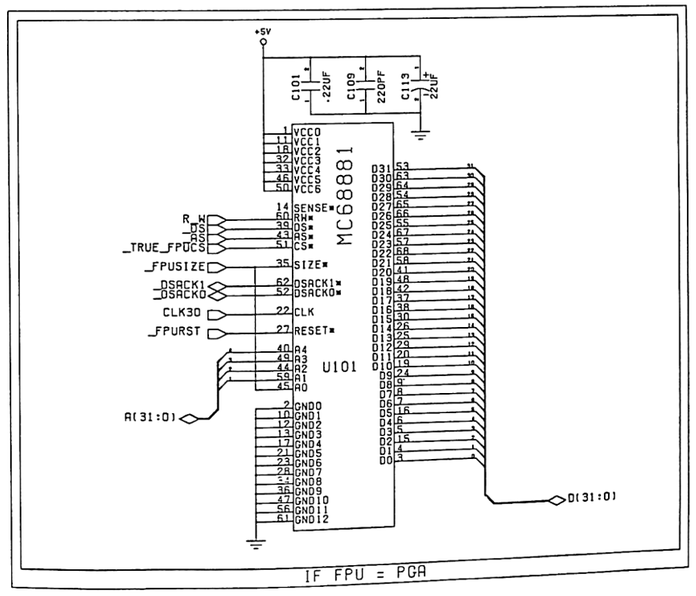


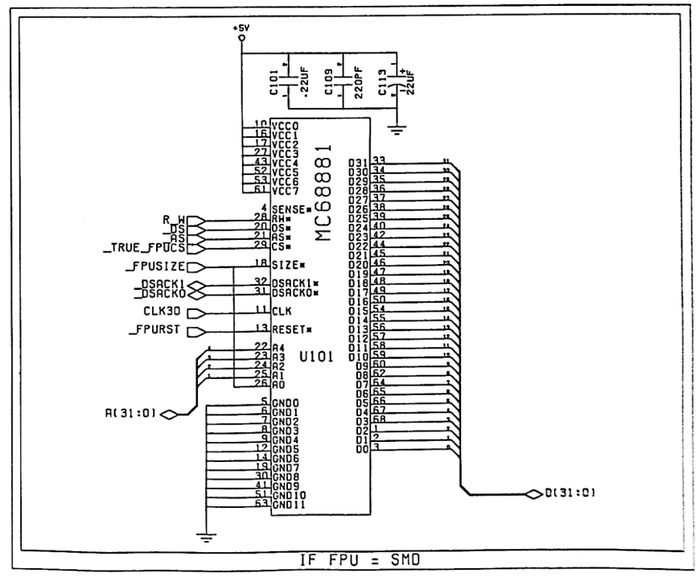
PCB BOARD LAYOUT #313311, REV. D

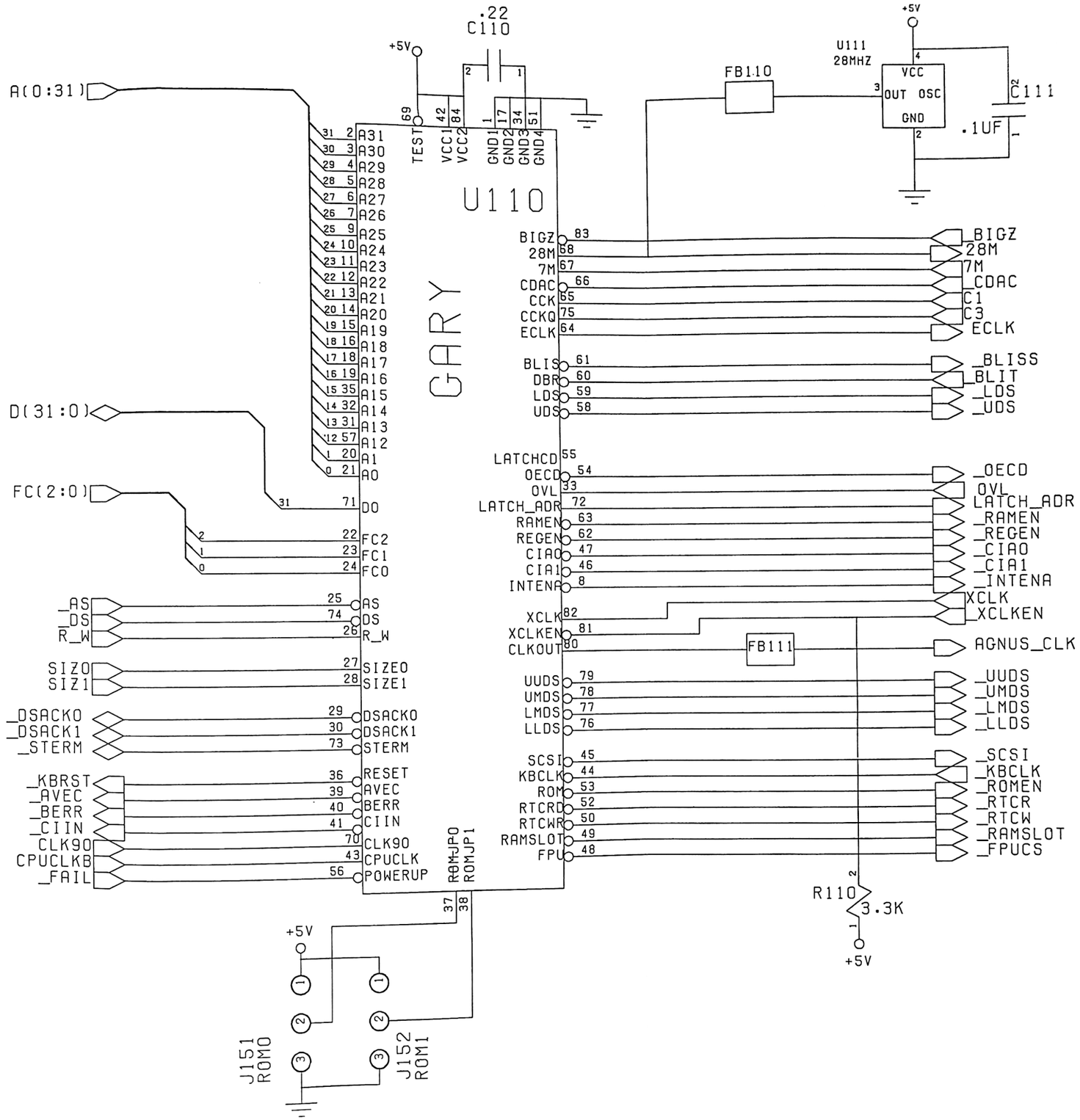

+5V
FC(2:0)
STERM
EMUL
CBREQ
CBACK
DBEN
DSACK0
DSACK1
FPUSIZE
FPU SELECT
7407
U713
BERR
J103
_FPUCS
_TRUE_FPUCS
RMC
CIIN
AVEC
BR
BGACK
BG30
BERR
74F08
_BGACK
_BOSS
U710
_BGACK30
_BR
_CBR
_BR30
D(31:0)
A(31:0)
U106
74F74
U104
VALVE
.01UF
C104
R120
22
R121
EXTCPU
U102
DELAYLINE
J102
BOARD CLOCK
CPU CLOCK
J104
J100
CLK90
EXT90
U103
CPUCLKA
CPUCLKB
CLK30
CLK90
RP111
74F04
U204
C106
C102
C107
C103
.1UF
22UF

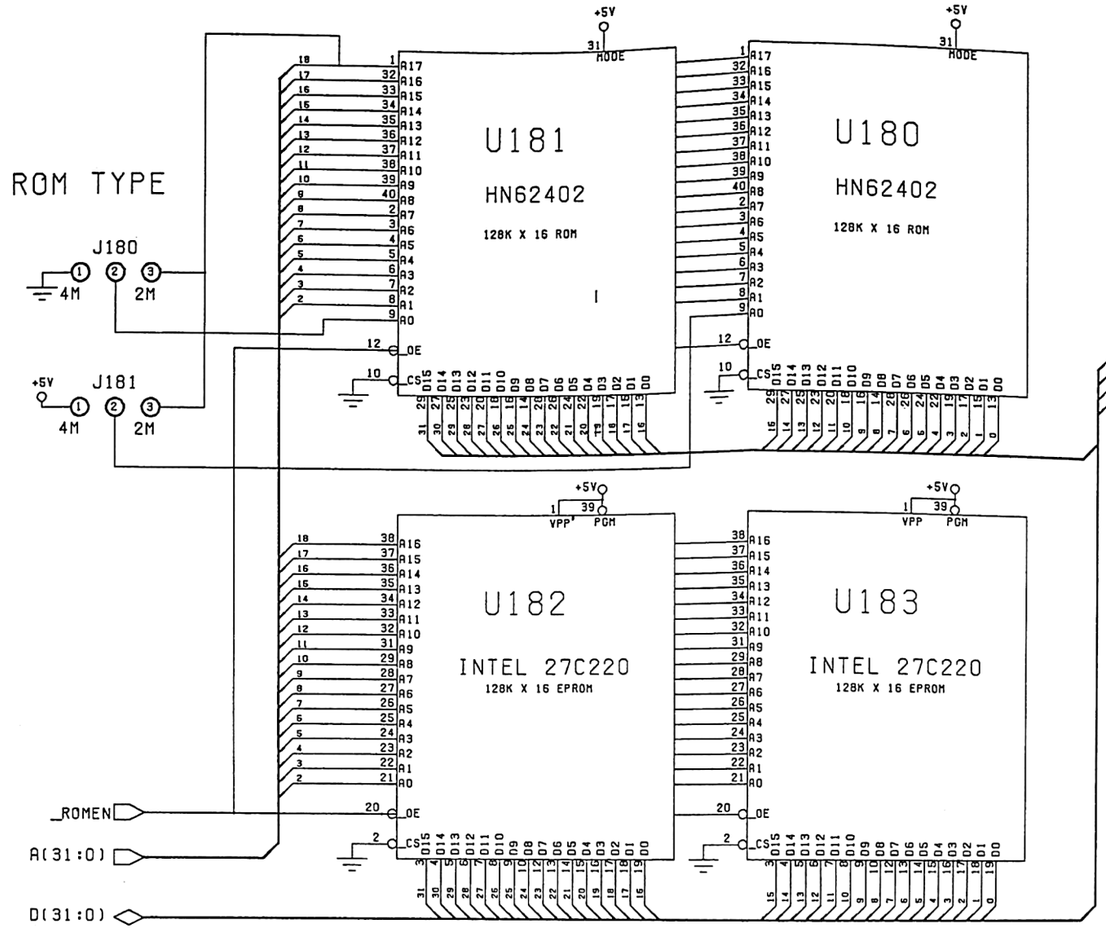

U100
MC68030
CLK30
CLKIN
_BR30
_BG30
_BGACK30
_HALT
_CPURST
_BERR
_STERM
_DSACK1
_DSACK0
_DS
_AS
RMC
R/W
FC(2:0)
SIZ1
SIZ0
A(31:0)
D(31:0)
AVEC
_IPEND
IPL(2:0)
_EMUL
CIOUT
CIIN
_CBREQ
_CBACK
_DBEN
_OCS
_ECS
C100
C105
.22UF
22UF
220PF
IF CPU = PGA

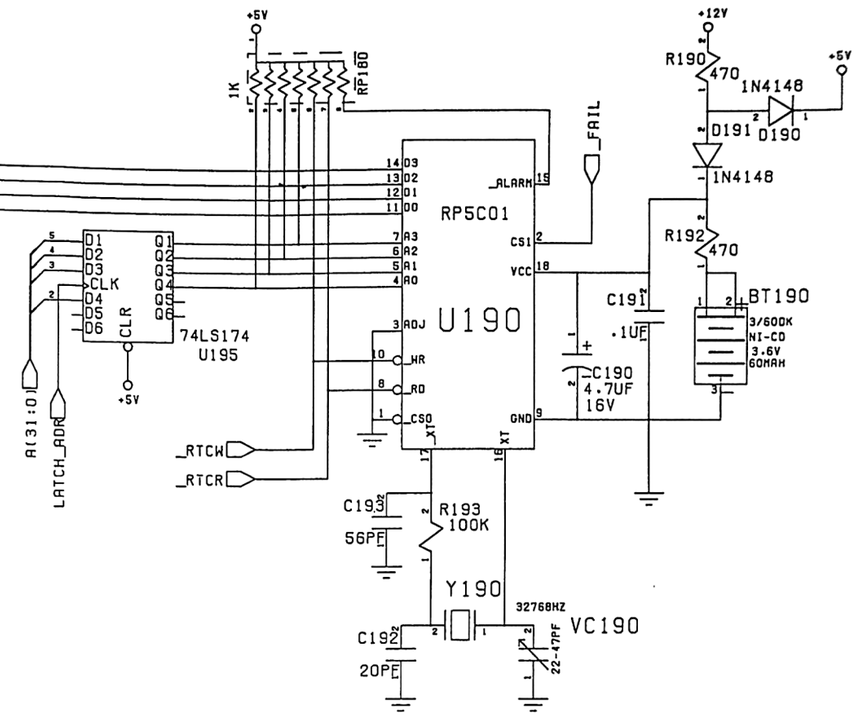

U100
MC68030
CLK30
CLKIN
_BR30
_BG30
_BGACK30
_HALT
_CPURST
_BERR
_STERM
_DSACK1
_DSACK0
_DS
_AS
RMC
R/W
FC(2:0)
SIZ1
SIZ0
A(31:0)
D(31:0)
AVEC
_IPEND
IPL(2:0)
_EMUL
CIOUT
CIIN
_CBREQ
_CBACK
_DBEN
_OCS
_ECS
C100
C105
.22UF
22UF
220PF
IF CPU = SMD

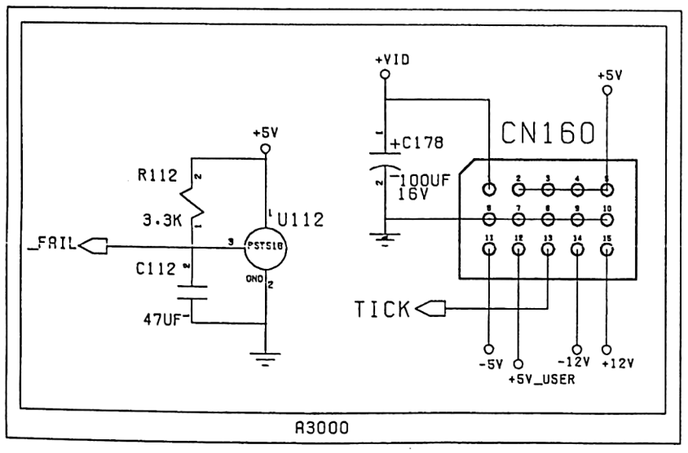

U101
MC68881
CLK30
_FPURST
_TRUE_FPUCS
_FPUSIZE
_DSACK1
_DSACK0
SENSE
CLK
RESET
A(31:0)
D(31:0)
C101
C109
C113
.22UF
220PF
22UF
IF FPU = PGA

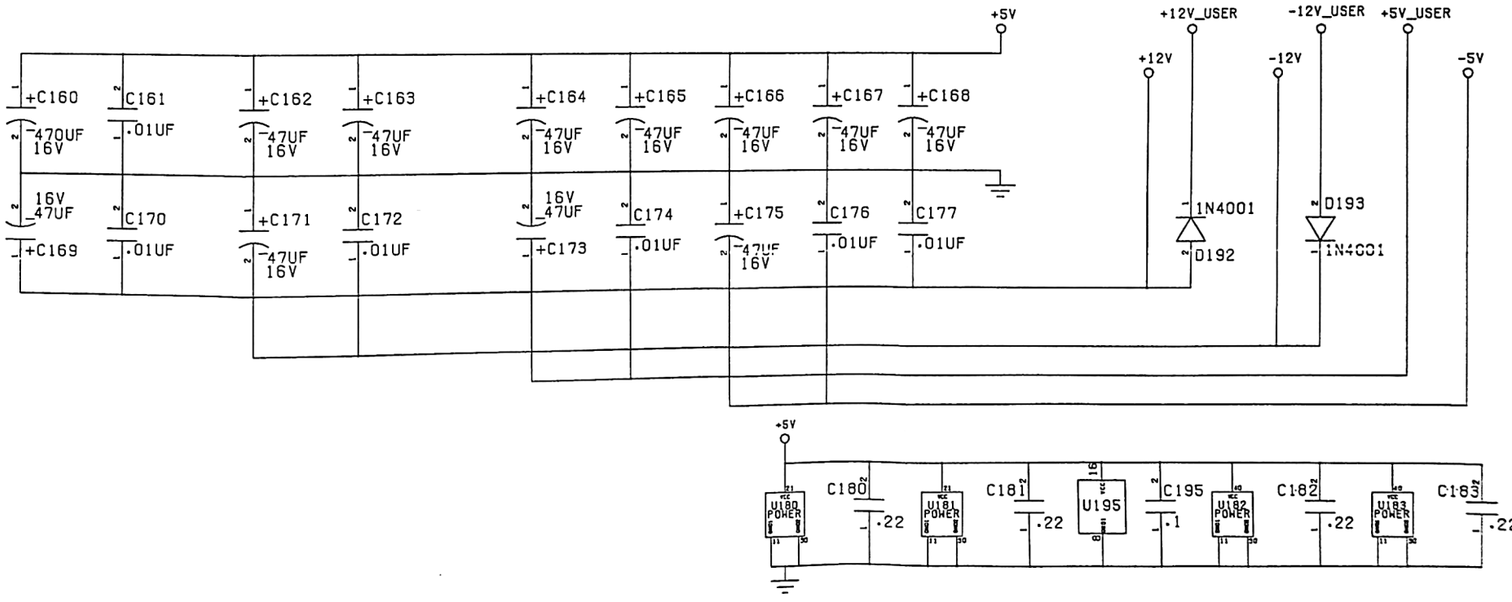

U101
MC68881
CLK30
_FPURST
_TRUE_FPUCS
_FPUSIZE
_DSACK1
_DSACK0
SENSE
CLK
RESET
A(31:0)
D(31:0)
C101
C109
C113
.22UF
220PF
22UF
IF FPU = SMD


.22
C110
+5V
U111
28MHZ
FB110
VCC
OUT OSC
GND
C111
.1UF
A(0:31)
D(31:0)
FC(2:0)
_AS
_DS
R_W
SIZ0
SIZ1
_DSACK0
_DSACK1
_STERM
_KBRST
_AVEC
_BERR
_CIIN
CLK90
CPUCLKB
_FAIL
TEST
VCC1
VCC2
GND1
GND2
GND3
GND4
U110
GARY
A31
A30
A29
A28
A27
A26
A25
A24
A23
A22
A21
A20
A19
A18
A17
A16
A15
A14
A13
A12
A1
A0
D0
FC2
FC1
FC0
AS
DS
R_W
SIZE0
SIZE1
DSACK0
DSACK1
STERM
RESET
AVEC
BERR
CIIN
CLK90
CPUCLK
POWERUP
ROMJP0
ROMJP1
BIGZ
28M
7M
CDAC
CCK
CCKQ
ECLK
BLIS
DBR
LDS
UDS
LATCHCD
OECD
OVL
LATCH_ADR
RAMEN
REGEN
CIAO
CIA1
INTENA
XCLK
XCLKEN
CLKOUT
FB111
UUDS
UMDS
LMDS
LLDS
SCSI
KBCLK
ROM
RTCRD
RTCWR
RAMSLOT
FPU
_BIGZ
28M
7M
_CDAC
C1
C3
ECLK
_BLISS
_BLIT
_LDS
_UDS
_OECD
OVL
LATCH_ADR
_RAMEN
_REGEN
_CIAO
_CIA1
_INTENA
XCLK
_XCLKEN
AGNUS_CLK
_UUDS
_UMDS
_LMDS
_LLDS
_SCSI
_KBCLK
_ROMEN
_RTCR
_RTCW
_RAMSLOT
_FPUCS
R110
3.3K
+5V
J151
ROM0
J152
ROM1

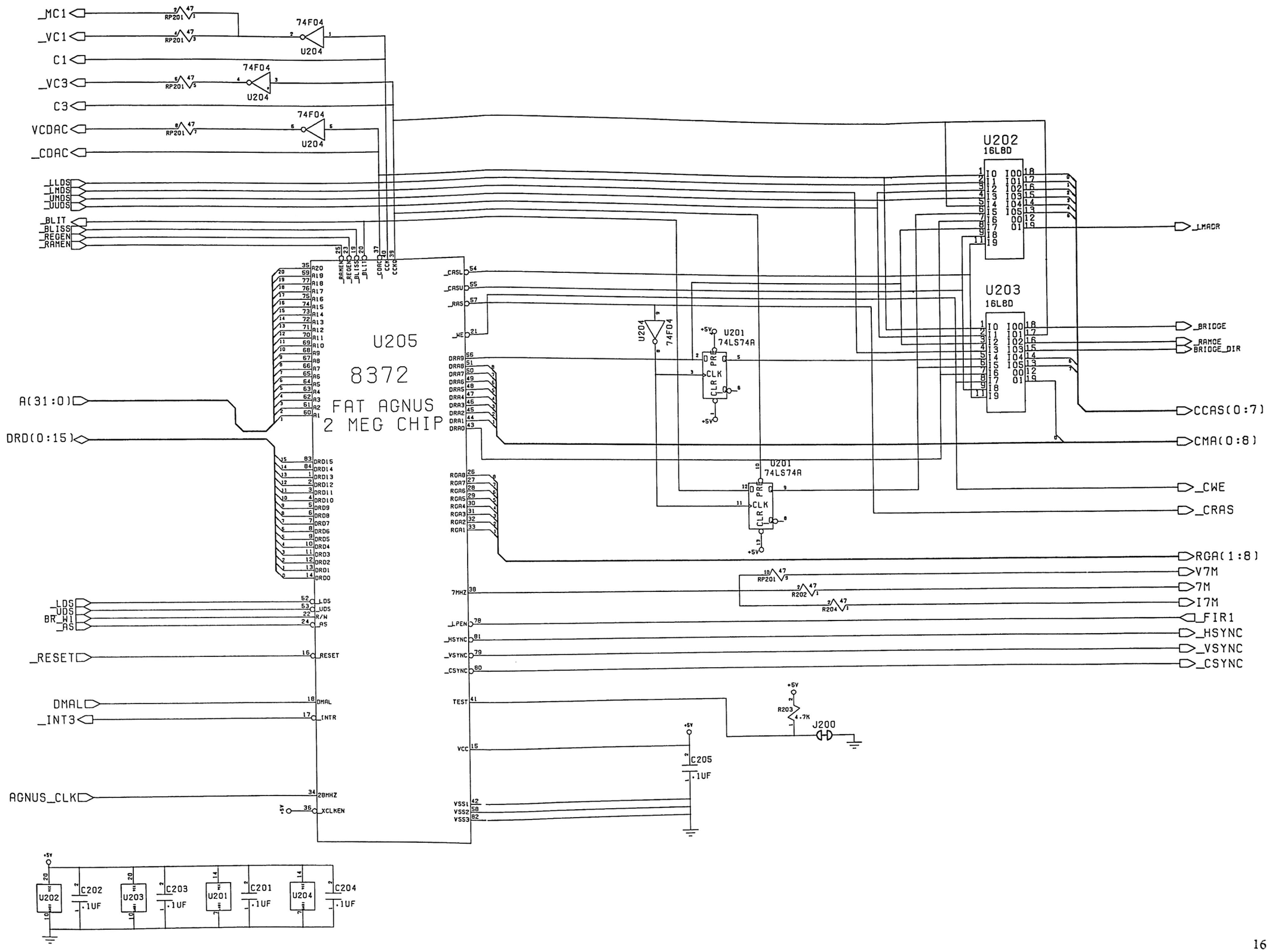

ROM TYPE
J180
4M
2M
J181
U181
HN62402
128K X 16 ROM
U180
HN62402
128K X 16 ROM
U182
INTEL 27C220
128K X 16 EPROM
U183
INTEL 27C220
128K X 16 EPROM
_ROMEN
A(31:0)
D(31:0)

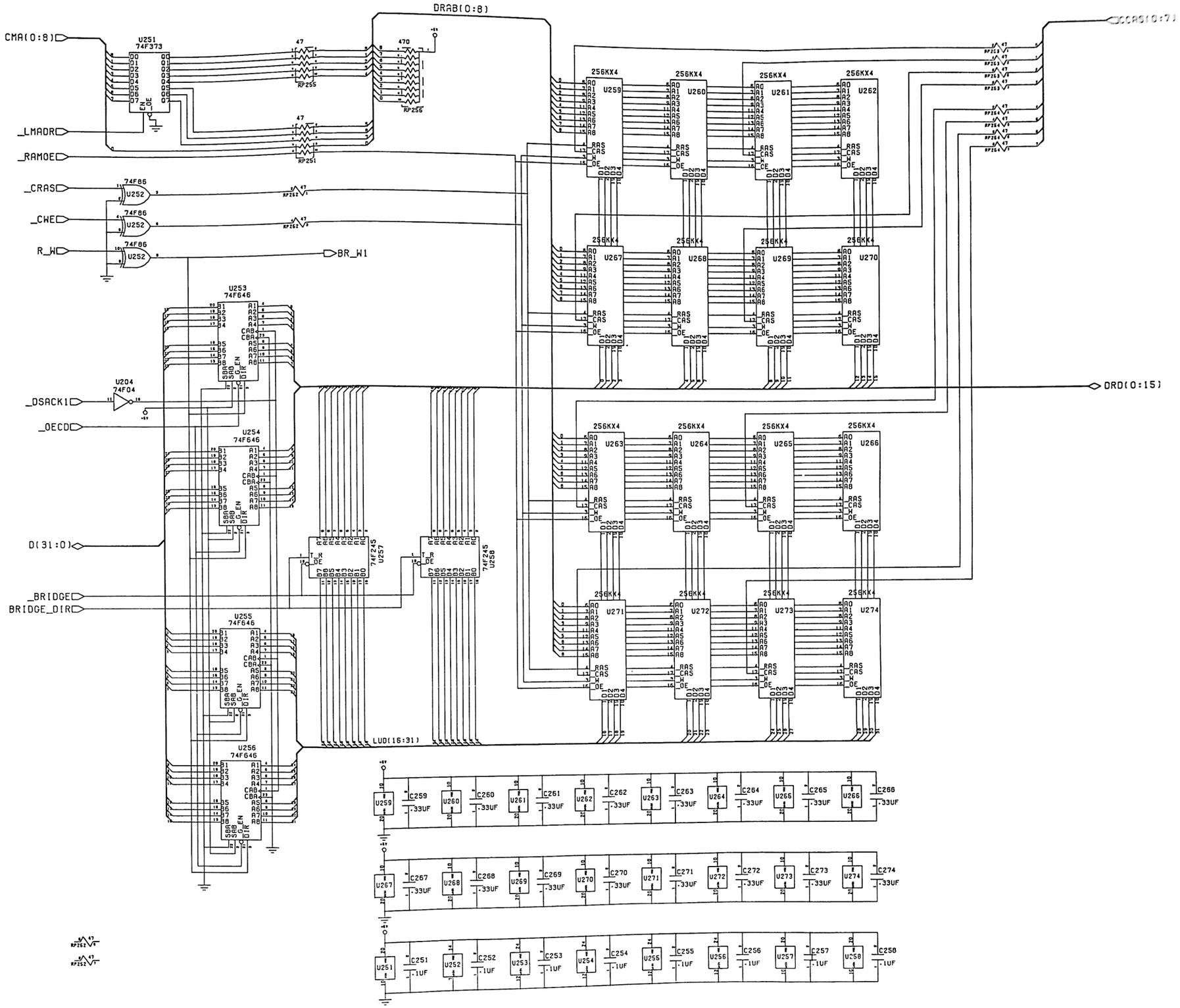

74LS174
U195
A(31:0)
LATCH_ADR
_RTCW
_RTCR
RP5C01
U190
_ALARM
FAIL
C191
.1UF
C190
4.7UF
16V
BT190
3/600K
NI-CD
3.6V
60MAH
R190
470
1N4148
D191
D190
R192
C193
56PF
R193
100K
Y190
32768HZ
C192
20PF
VC190

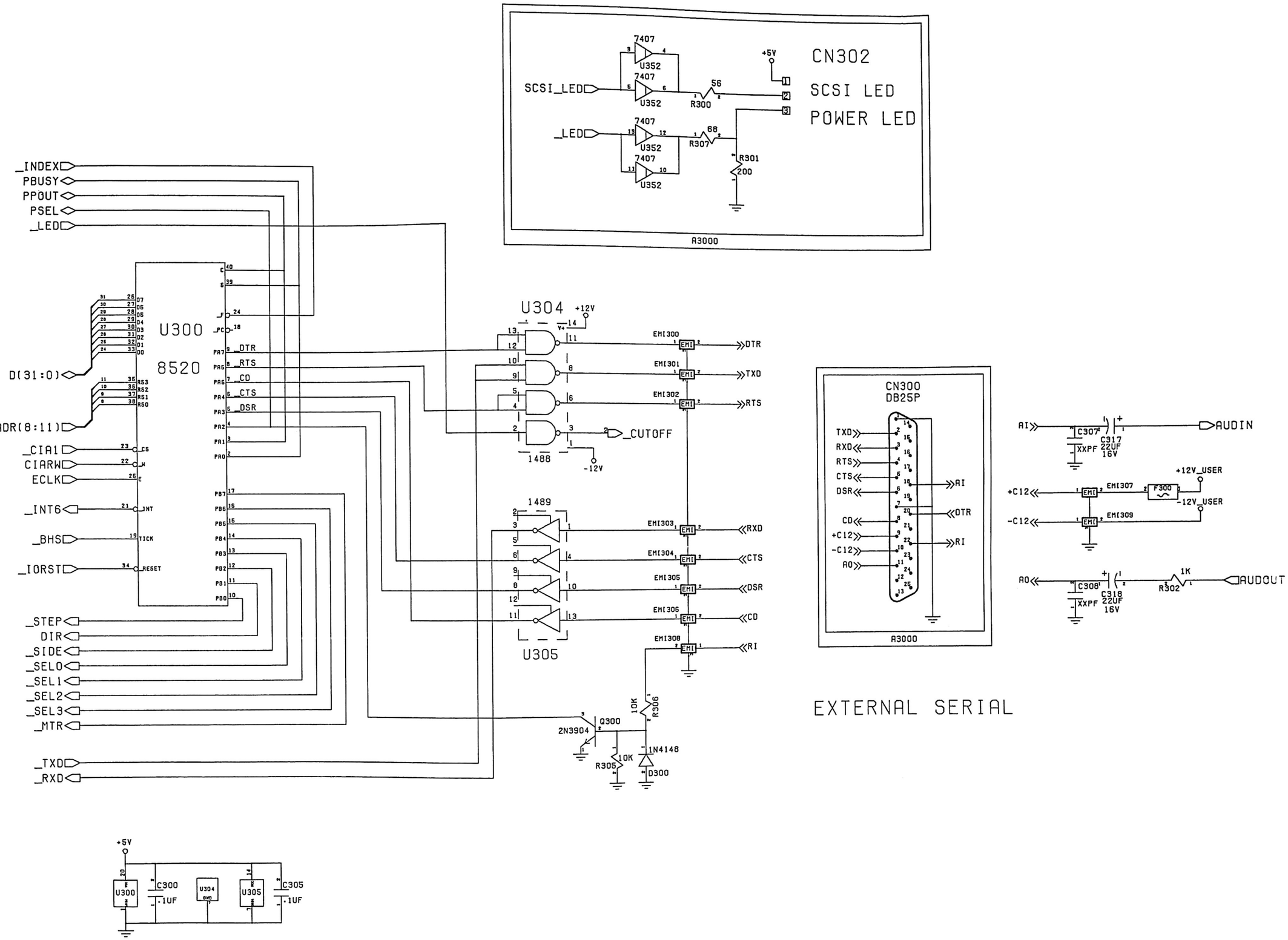

R112
3.3K
U112
FAIL
C112
47UF
+VID
CN160
+C178
100UF
16V
TICK
-5V
+5V_USER
-12V
+12V
A3000

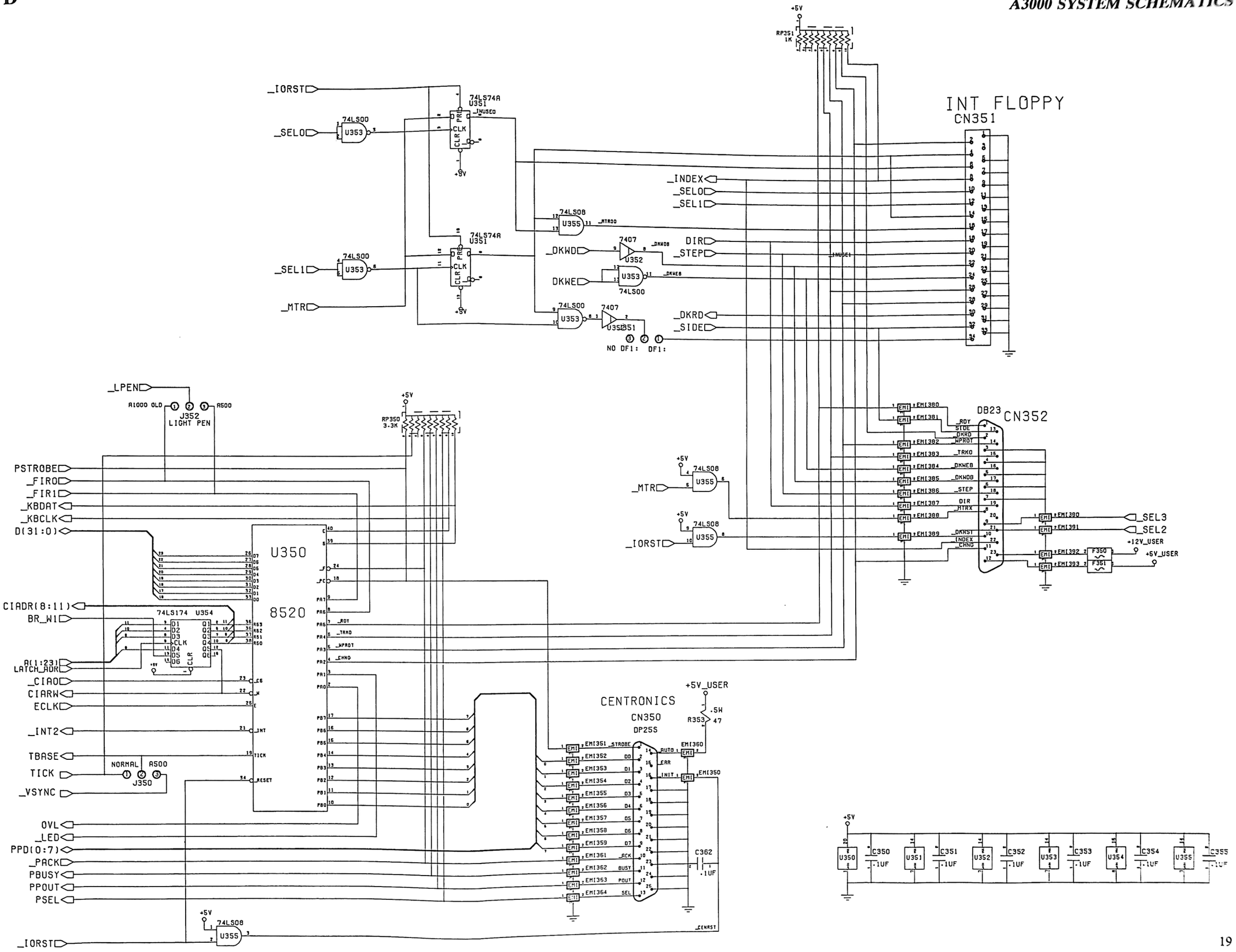

+C160
C161
.01UF
+C162
+C163
+C164
+C165
+C166
+C167
+C168
470UF
16V
47UF
16V
C170
+C169
+C171
C172
+C173
C174
+C175
C176
C177
+12V_USER
-12V_USER
+5V_USER
-5V
1N4001
D192
D193
1N4001

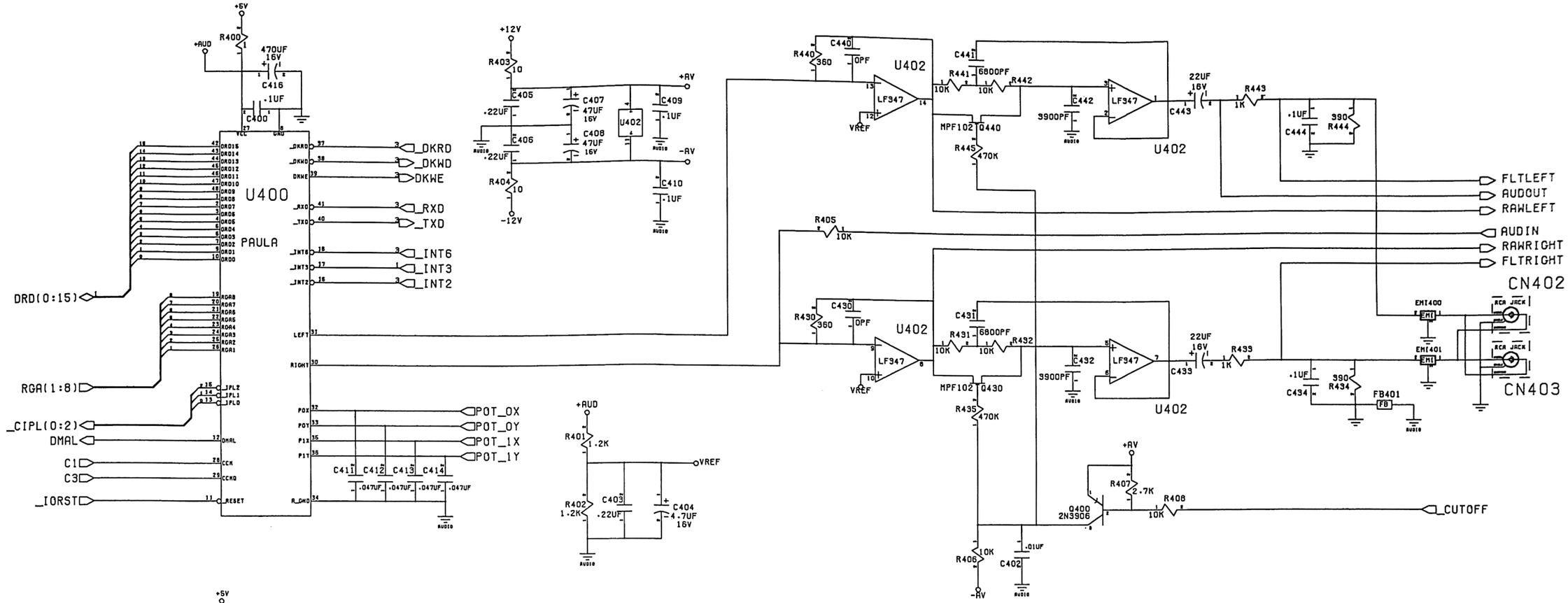
C180
.22
U180
POWER
C181
.22
U181
POWER
U195
C195
.1
U182
POWER
C182
.22
U183
POWER
C183
.22

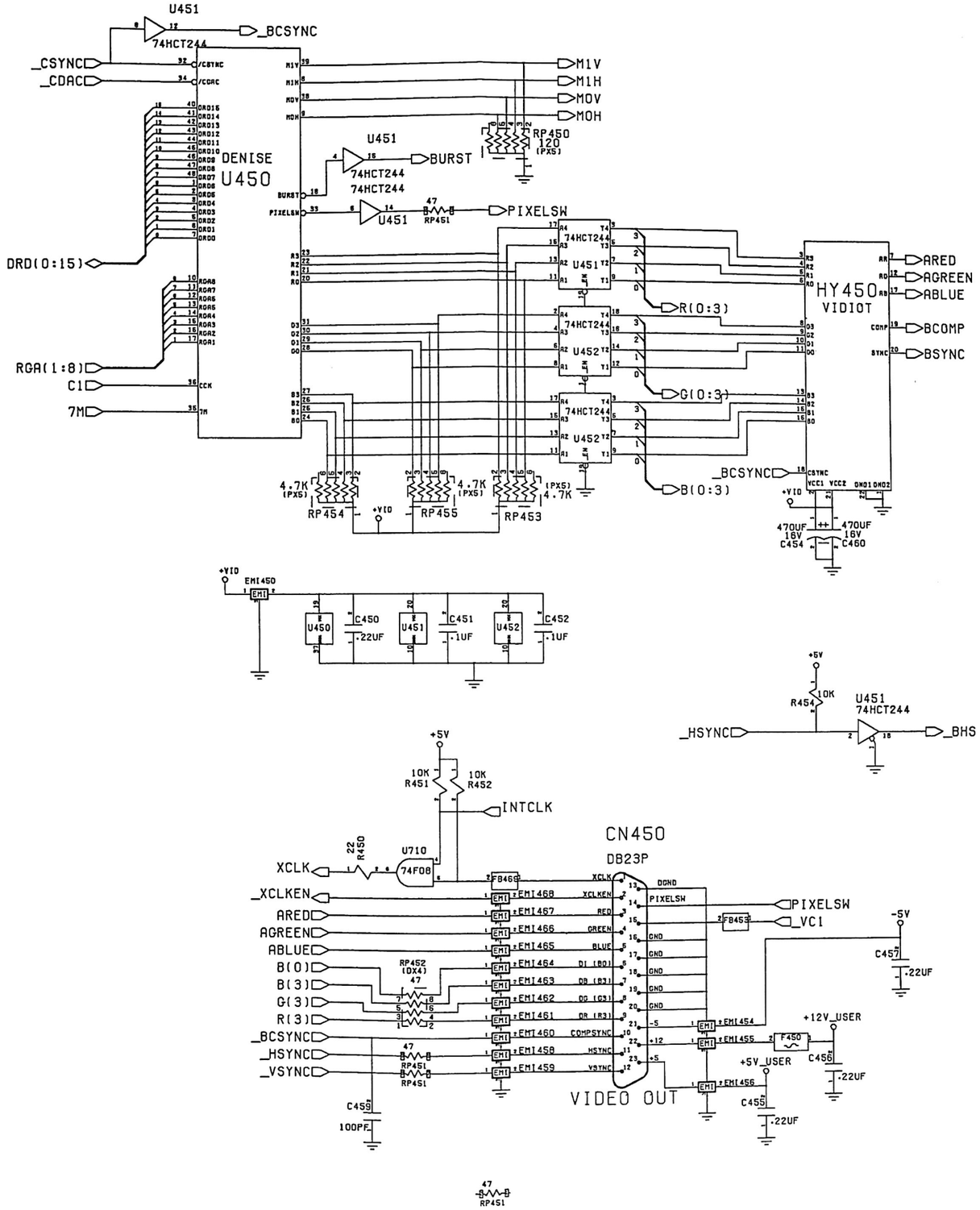

_MC1
_VC1
C1
_VC3
C3
VCDAC
_CDAC
_LLDS
_LMDS
_UMDS
_UUDS
_BLIT
_BLISS
_REGEN
_RAMEN
RP201
74F04
U204
U205
8372
FAT AGNUS
2 MEG CHIP
A(31:0)
DRD(0:15)
LDS
UDS
BR_W1
AS
_RESET
DMAL
_INT3
AGNUS_CLK
28MHZ
XCLKEN
_CASL
_CASU
_RAS
_WE
DRA8
DRA7
DRA6
DRA5
DRA4
DRA3
DRA2
DRA1
DRA0
U201
74LS74A
U202
16L8D
U203
16L8D
_LMADR
_BRIDGE
_RAMCE
BRIDGE_DIR
CCAS(0:7)
CMA(0:8)
_CWE
_CRAS
RGA(1:8)
V7M
7M
I7M
_FIR1
_HSYNC
_VSYNC
_CSYNC
7MHZ
_LPEN
TEST
VCC
VSS1
VSS2
VSS3
R202
R204
R203
4.7K
J200
C205
.1UF
C202
C203
C201
C204

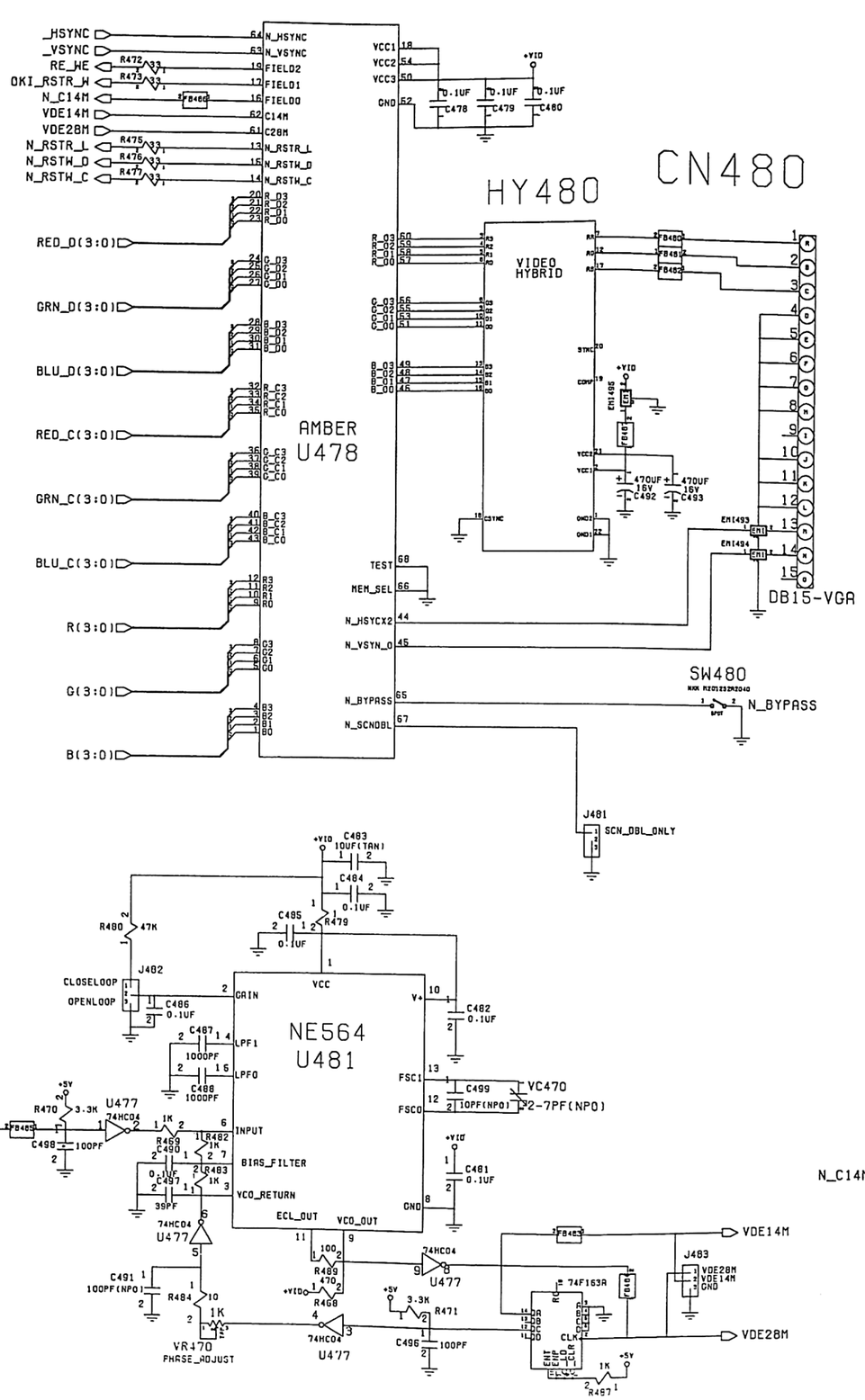

DRAB(0:8)
CMA(0:8)
U251
74F373
47
470
RP255
RP256
RP251
_LMADR
_RAMOE
_CRAS
_CWE
R_W
74F86
U252
RP262
BR_W1
U253
74F646
U254
74F646
U255
74F646
U256
74F646
U204
74F04
_DSACK1
_OECD
D(31:0)
_BRIDGE
BRIDGE_DIR
74F245
U257
74F245
U258
LUD(16:31)
256KX4
U259
U260
U261
U262
U267
U268
U269
U270
U263
U264
U265
U266
U271
U272
U273
U274
DRD(0:15)
C259
C260
C261
C262
C263
C264
C265
C266
C267
C268
C269
C270
C271
C272
C273
C274
C251
C252
C253
C254
C255
C256
C257
C258
.33UF
.1UF

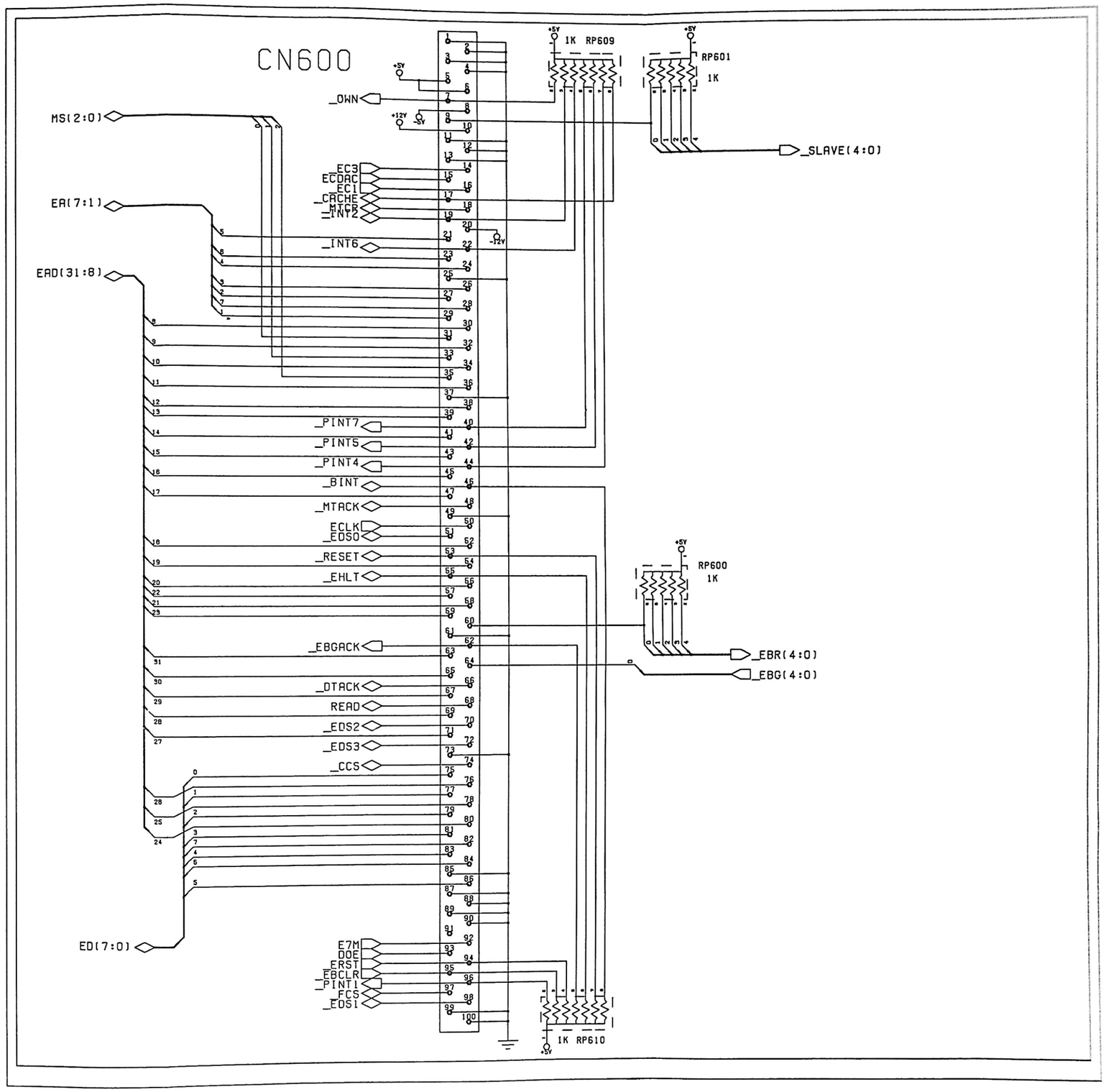

CN302
SCSI LED
POWER LED
A3000
SCSI_LED
_LED
+5V
7407
U352
56
R300
68
R907
R301
200
_INDEX
PBUSY
PPOUT
PSEL
_LED
U300
8520
D(31:0)
CIADR(8:11)
_CIA1
CIARW
ECLK
_INT6
_BHS
_IORST
_STEP
DIR
_SIDE
_SEL0
_SEL1
_SEL2
_SEL3
_MTR
_TXD
_RXD
_DTR
_RTS
_CD
_CTS
_DSR
U304
+12V
-12V
1488
EMI300
EMI301
EMI302
_CUTOFF
DTR
TXD
RTS
1489
EMI303
EMI304
EMI305
EMI306
EMI308
RXD
CTS
DSR
CD
RI
U305
Q300
2N3904
10K
R306
R305
1N4148
D300
CN300
DB25P
TXD
RXD
RTS
CTS
DSR
CD
+C12
-C12
AO
AI
DTR
RI
A3000
EXTERNAL SERIAL
AI
C307
XXPF
C317
22UF
16V
AUDIN
+12V_USER
EMI307
F300
-12V_USER
EMI309
AO
C308
XXPF
C318
22UF
16V
1K
R302
AUDOUT
+5V
U300
U304
U305
C300
.1UF
C305
.1UF


INT FLOPPY
CN351
CN352
CENTRONICS
CN350
DP25S
U350
8520
74LS174 U354
J352
LIGHT PEN
J350
RP351 1K
RP350 3.3K
_IORST
_SEL0
_SEL1
_MTR
_INDEX
DIR
_STEP
_DKWD
DKWE
_DKRD
_SIDE
NO DF1:
DF1:
_LPEN
A1000 OLD
A500
PSTROBE
_FIR0
_FIR1
_KBDAT
_KBCLK
D(31:0)
CIADR(8:11)
BR_W1
A(1:23)
LATCH_ADR
_CIA0
CIARW
ECLK
_INT2
TBASE
TICK
_VSYNC
NORMAL
OVL
_LED
PPD(0:7)
_PACK
PBUSY
PPOUT
PSEL
_DKRST
_SEL3
_SEL2
+12V_USER
+5V_USER
+5V
R353 .5H 47
C362 .1UF
C350 .1UF
C351 .1UF
C352 .1UF
C353 .1UF
C354 .1UF
C355 .1UF


U400
PAULA
DRD(0:15)
RGA(1:8)
_CIPL(0:2)
DMAL
C1
C3
_IORST
_DKRD
_DKWD
DKWE
_RXD
_TXD
_INT6
_INT3
_INT2
POT_0X
POT_0Y
POT_1X
POT_1Y
LEFT
RIGHT
+12V
-12V
+AV
-AV
+AUD
U402
LF347
VREF
MPF102
FLTLEFT
AUDOUT
RAWLEFT
AUDIN
RAWRIGHT
FLTRIGHT
CN402
CN403
EMI400
EMI401
FB401
U401
74LS157
UNUSED
RP401
RP400
RIGHT(1)
DB9P CN400
LEFT(0)
DB9P CN401
FORWARD
BACK
LEFT
RIGHT
FIRE
+5V
GND
POTY
POTX
_FIR1
+5JOY
POT_1Y
POT_1X
_FIR0
POT_0Y
POT_0X
+5V_USER
F400
FB400
KEYBOARD
CN420
_KBCLK
_KBDAT
_CUTOFF
Q400
2N3906

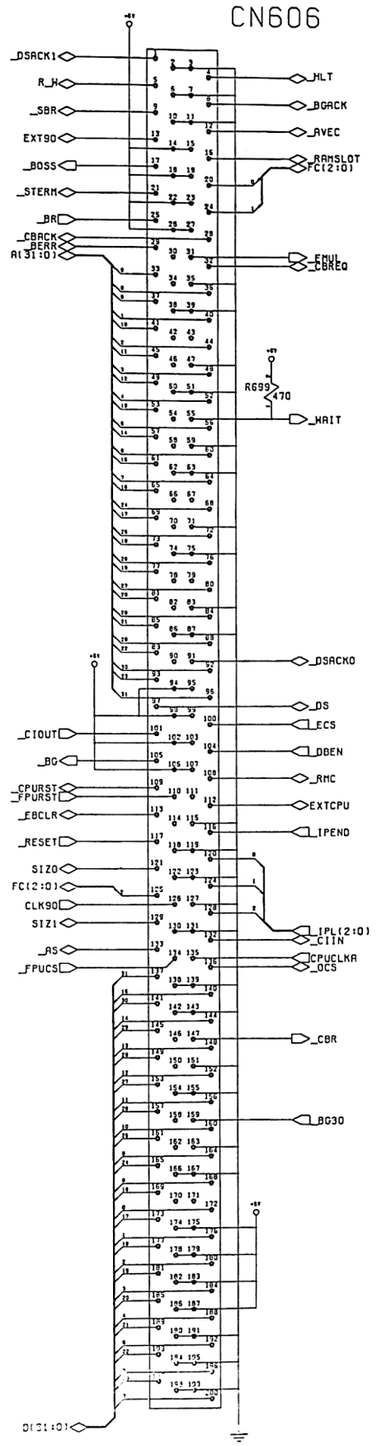

U451
74HCT244
_BCSYNC
_CSYNC
_CDAC
DENISE
U450
DRD(0:15)
RGA(1:8)
C1
7M
M1V
M1H
MOV
MOH
RP450
120
(PX5)
BURST
PIXELSW
47
RP451
R(0:3)
G(0:3)
B(0:3)
HY450
VIDIOT
ARED
AGREEN
ABLUE
BCOMP
BSYNC
4.7K
(PX5)
RP454
RP455
RP453
+VID
470UF
16V
C454
C460
EMI450
C450
.22UF
C451
.1UF
C452
.1UF
+5V
10K
R454
_HSYNC
_BHS
10K
R451
10K
R452
INTCLK
22
R450
U710
74F08
XCLK
CN450
DB23P
_XCLKEN
ARED
AGREEN
ABLUE
B(0)
B(3)
G(3)
R(3)
_BCSYNC
_HSYNC
_VSYNC
RP452
(DX4)
47
RP451
C459
100PF
VIDEO OUT
PIXELSW
_VC1
-5V
C457
.22UF
+12V_USER
+5V_USER
F450
C456
C455
CN451
+12V
+5V
FLTLEFT
FLTRIGHT
ARED
AGREEN
_BCSYNC
ABLUE
_XCLKEN
BURST
_C4
_HSYNC
B(0)
B(3)
_VSYNC
G(3)
BSYNC
R(3)
PIXELSW
INTCLK
_VC1
PSTROBE
C458
47PF
R(0:3)
G(0:3)
B(0:3)
BCOMP
TBASE
VCOAC
PPOUT
VC3
PBUSY
_LPEN
_PACK
_PSEL
PPD(0:7)
_LED
RAWLEFT
RAWRIGHT
EBR(0:5)
EBG(0:5)
SLAVE(0:5)
A3000


_HSYNC
_VSYNC
RE_HE
OKI_RSTR_H
N_C14M
VDE14M
VDE28M
N_RSTR_L
N_RSTW_D
N_RSTW_C
R472
R473
R475
R476
R477
FB466
N_HSYNC
N_VSYNC
FIELD2
FIELD1
FIELD0
C14M
C28M
N_RSTR_L
N_RSTW_D
N_RSTW_C
RED_D(3:0)
GRN_D(3:0)
BLU_D(3:0)
RED_C(3:0)
GRN_C(3:0)
BLU_C(3:0)
R(3:0)
G(3:0)
B(3:0)
AMBER
U478
VCC1
VCC2
VCC3
GND
C478
C479
C480
+VID
HY480
VIDEO
HYBRID
CN480
DB15-VGA
TEST
MEM_SEL
N_HSYCX2
N_VSYN_O
N_BYPASS
N_SCNDBL
SW480
J481
SCN_DBL_ONLY
C483
10UF(TAN)
C484
0.1UF
C485
R479
R480
47K
J482
CLOSELOOP
OPENLOOP
C486
C487
1000PF
C488
NE564
U481
VCC
CAIN
LPF1
LPFO
INPUT
BIAS_FILTER
VCO_RETURN
ECL_OUT
VCO_OUT
V+
FSC1
FSCO
C499
VC470
2-7PF(NPO)
C482
C481
GND
_VC1
R470
3.3K
U477
74HC04
R469
1K
R482
C490
R483
C497
39PF
C498
100PF
R489
470
R468
R471
C496
C491
100PF(NPO)
R484
VR470
PHASE_ADJUST
74F163A
J483
VDE28M
VDE14M
GND
R487
RED_DELAYED(3:0)
GRN_DELAYED(3:0)
BLU_DELAYED(3:0)
OKI MSM51422IRS-6
U470
U471
U472
U473
U474
U475
U479
UPD42101C-2
RSTR
RSTW
WE
RE
RCK
WCK
SWCK
SRCK
RSTW
RSTR
VSS
VCC
C470
C471
C472
C473
C474
C475
C494
74ALS74A
U480
N_C14M
OKI_RSTR_H
RE_HE
N_RSTW_C
C477
C476
C495
0.1UF
+5V

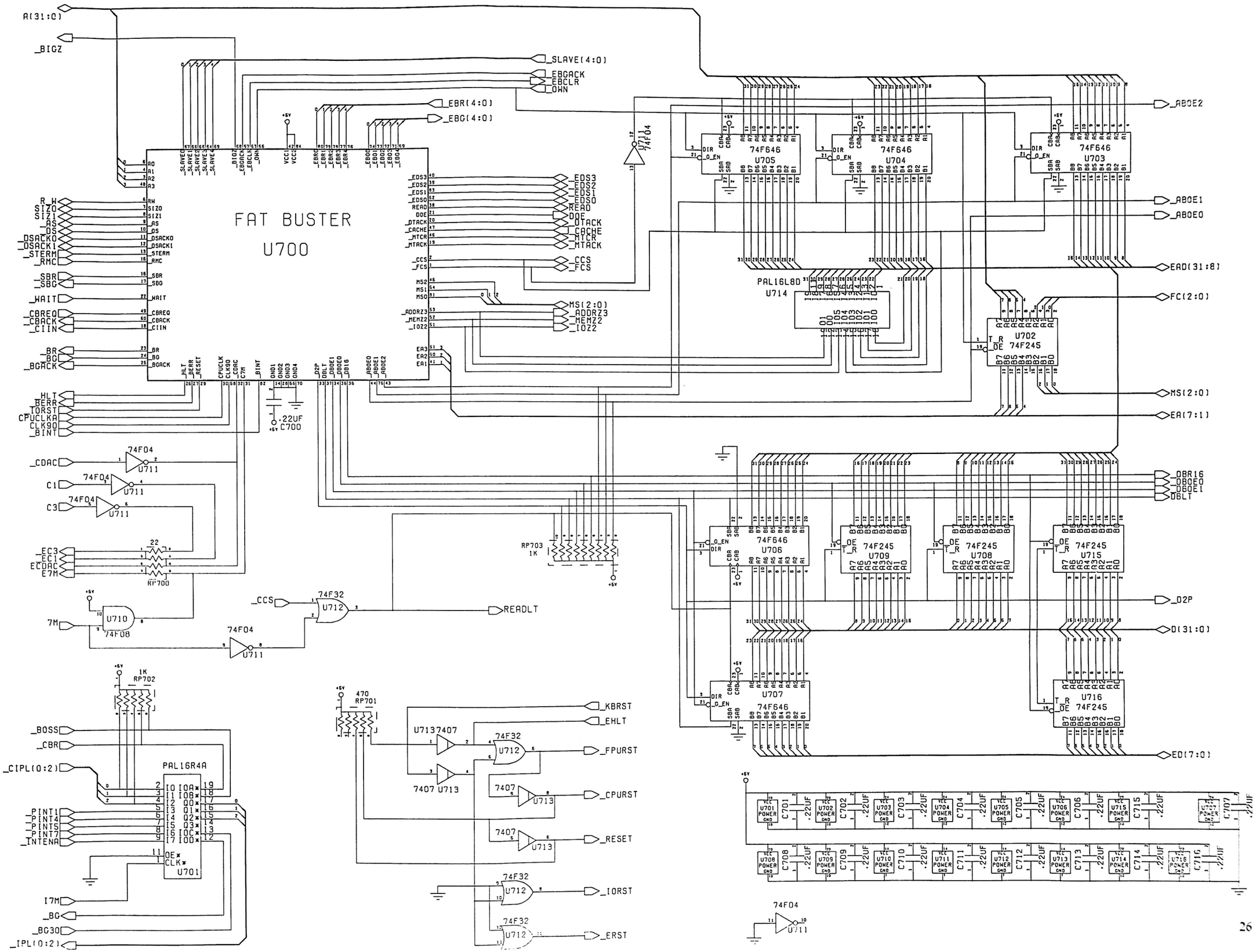

CN600
MS(2:0)
EA(7:1)
EAD(31:8)
ED(7:0)
_OWN
_EC3
ECDAC
_EC1
_CACHE
_MTCR
_INT2
_INT6
_PINT7
_PINT5
_PINT4
_BINT
_MTACK
ECLK
_EOS0
_RESET
_EHLT
_EBGACK
_DTACK
READ
_EDS2
_EDS3
_CCS
E7M
DOE
ERST
_EBCLR
_PINT1
_FCS
_EDS1
1K RP609
RP601
1K
_SLAVE(4:0)
RP600
1K
_EBR(4:0)
_EBG(4:0)
1K RP610
+5V
+12V
-12V

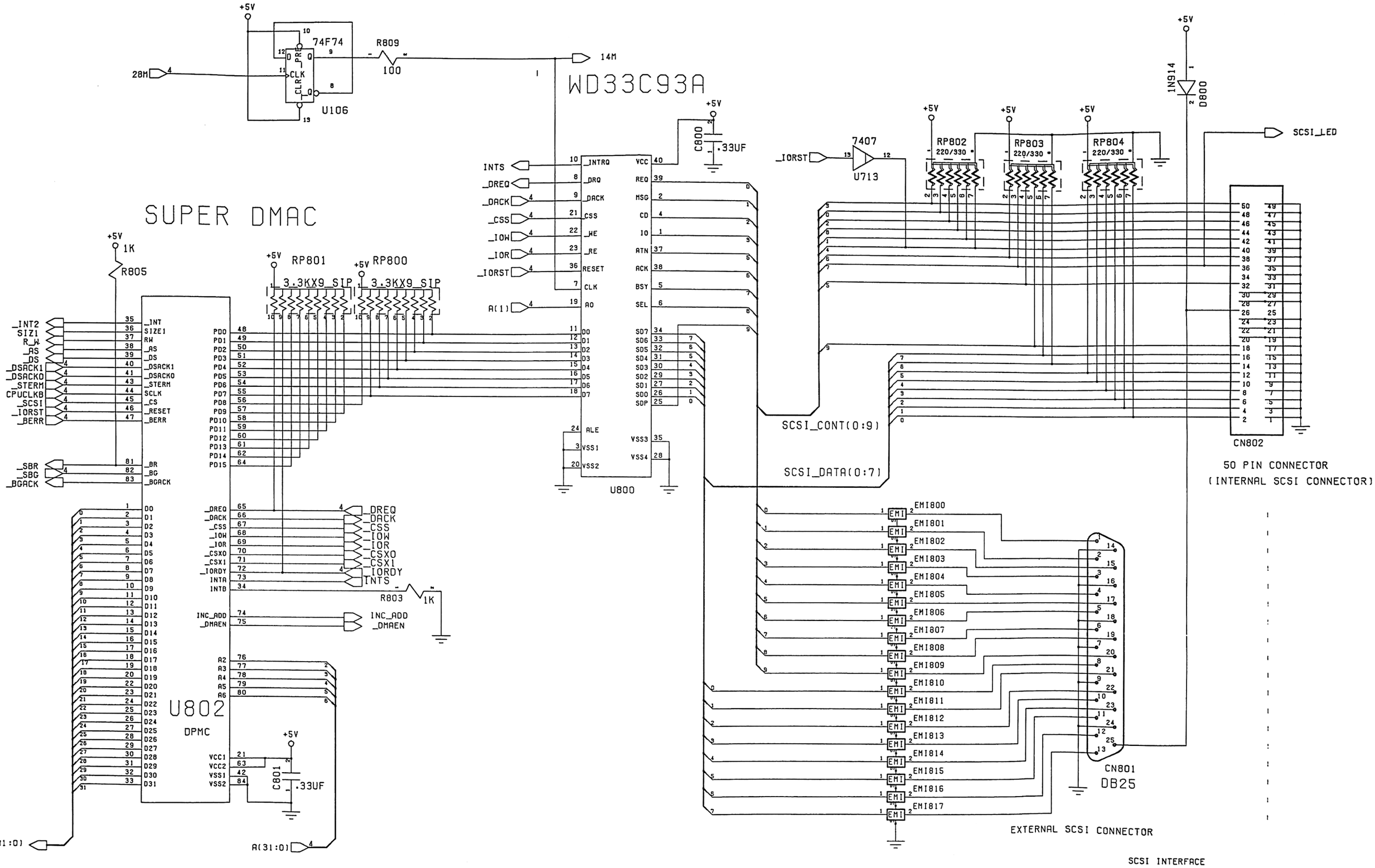
INTENTIONALLY LEFT BLANK
RESERVED FOR FUTURE USE

AMIGA 32 BIT LOCAL SLOT



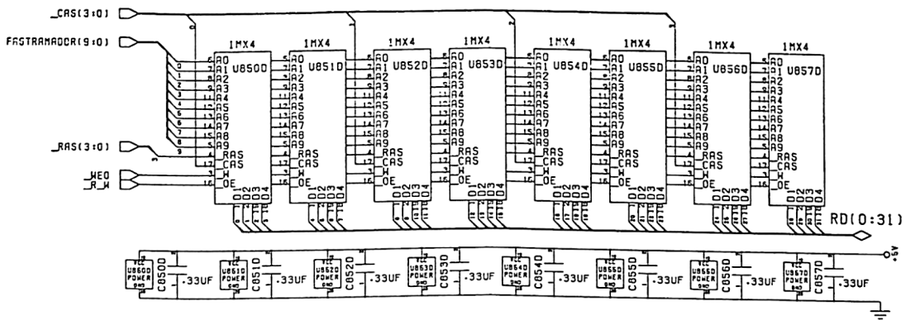
FAST SLOT


FAT BUSTER
U700
A(31:0)
_BIGZ
_SLAVE(4:0)
EBGACK
EBCLR
DWN
EBR(4:0)
EBG(4:0)
R_W
SIZ0
SIZ1
_AS
_DS
_DSACK0
_DSACK1
_STERM
_RMC
_SBR
_SBG
_WAIT
_CBREQ
_CBACK
_CIIN
_BR
_BG
_BGACK
_EDS3
_EDS2
_EDS1
_EDS0
READ
DOE
_DTACK
_CACHE
_MTCR
_MTACK
_CCS
_FCS
MS2
MS1
MS0
_ADDRZ3
_MEMZ2
_IOZ2
MS(2:0)
ADDRZ3
MEMZ2
_IOZ2
ER3
ER2
ER1
_HLT
_BERR
_TORST
CPUCLKA
CLK90
_BINT
_CDAC
C1
C3
_EC3
_EC1
ECDAC
E7M
22
RP700
.22UF
C700
74F04
U711
74F32
U712
U710
74F08
7M
_CCS
READLT
1K
RP702
PAL16R4A
U701
_BOSS
_CBR
_CIPL(0:2)
_PINT1
_PINT4
_PINT5
_PINT7
_INTENA
I7M
_BG
_BG30
_IPL(0:2)
470
RP701
U7137407
7407 U713
_KBRST
_EHLT
_FPURST
_CPURST
_RESET
_IORST
_ERST
1K
RP703
74F646
U705
U704
U703
U706
U707
74F245
U709
U708
U715
U716
U702
PAL16L8D
U714
_ABOE2
_ABOE1
_ABOE0
_EAD(31:8)
_FC(2:0)
_MS(2:0)
_EA(7:1)
_DBR16
_DBOE0
_DBOE1
_DBLT
_D2P
D(31:0)
_ED(7:0)
C701
C702
C703
C704
C705
C706
C715
C707
C708
C709
C710
C711
C712
C713
C714
C716
POWER
GND

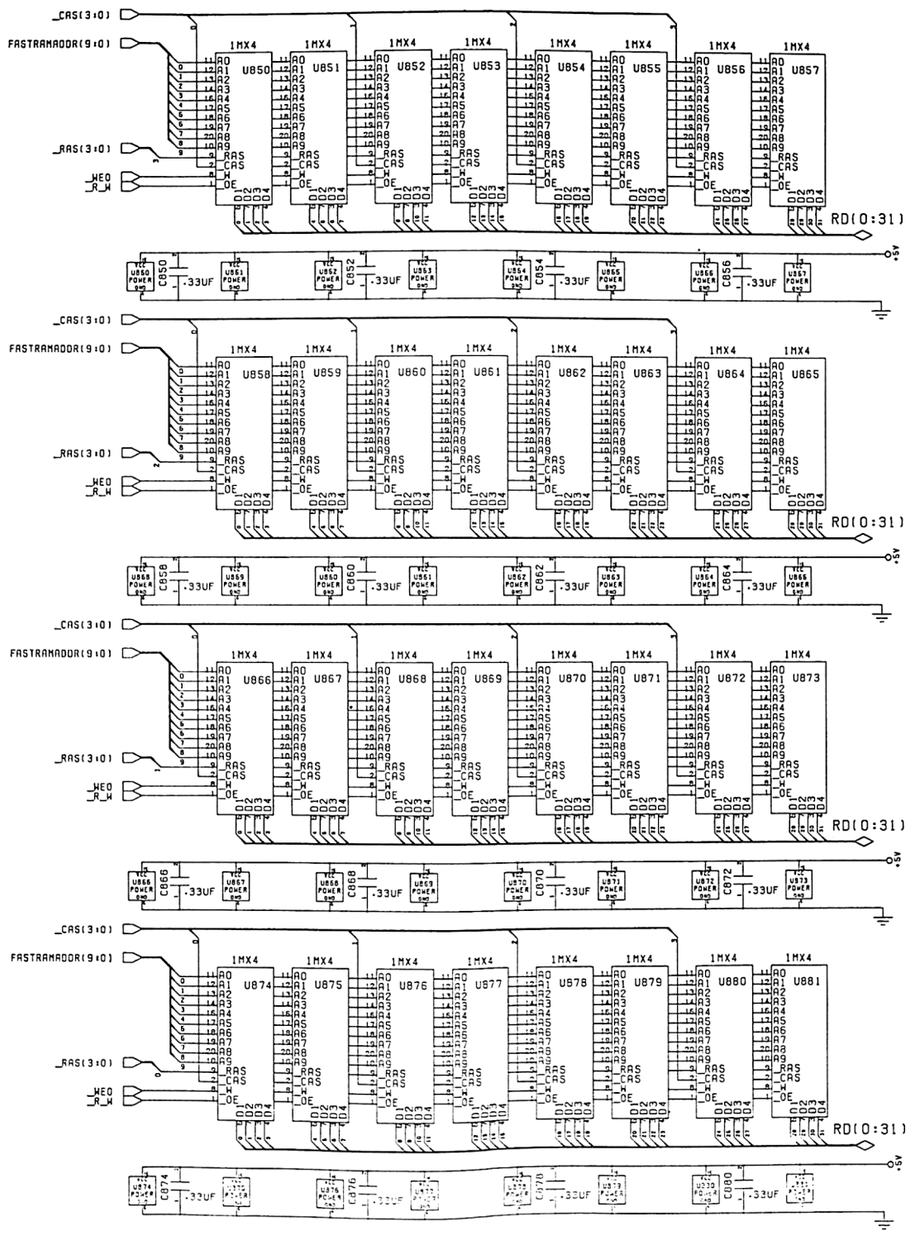


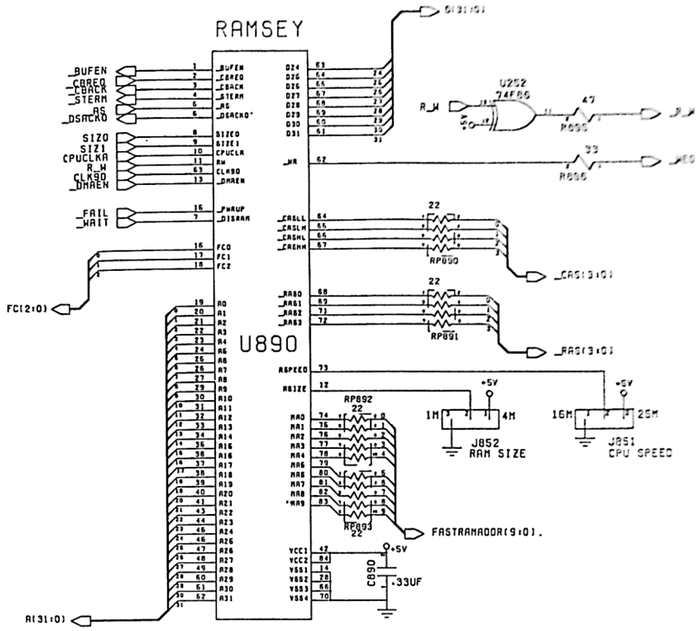
SCSI INTERFACE

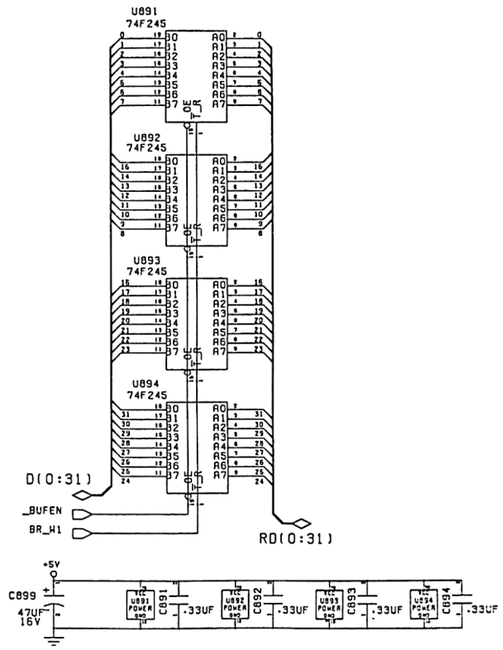
DIPS


_CAS(3:0)
FASTRAMADDR(9:0)
_RAS(3:0)
WE0
R_W
1MX4
U850D
U851D
U852D
U853D
U854D
U855D
U856D
U857D
RAS
CAS
OE
D1
D2
D3
D4
RD(0:31)
+5V
C850D
C851D
C852D
C853D
C854D
C855D
C856D
C857D
.33UF

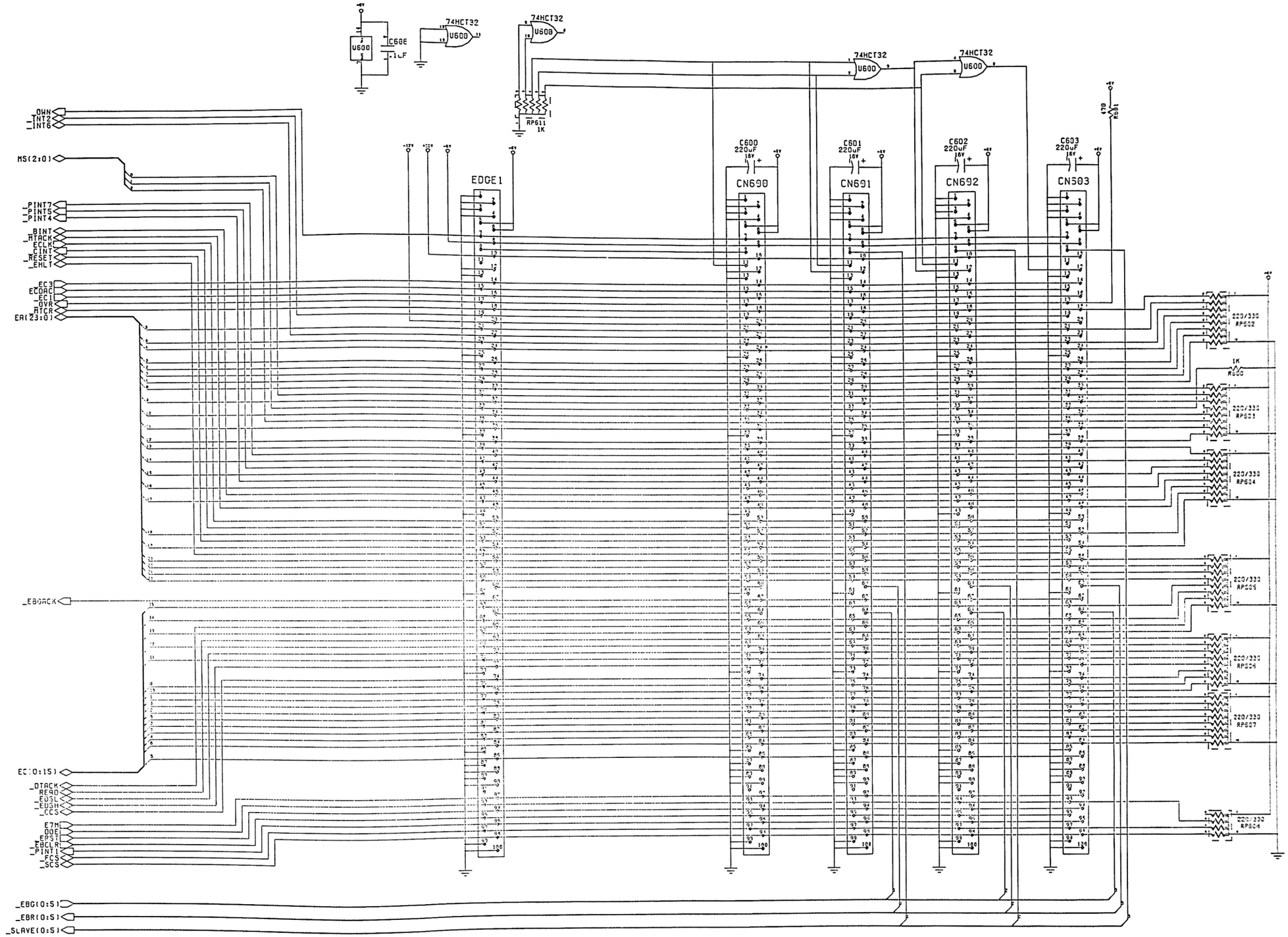
ZIPS

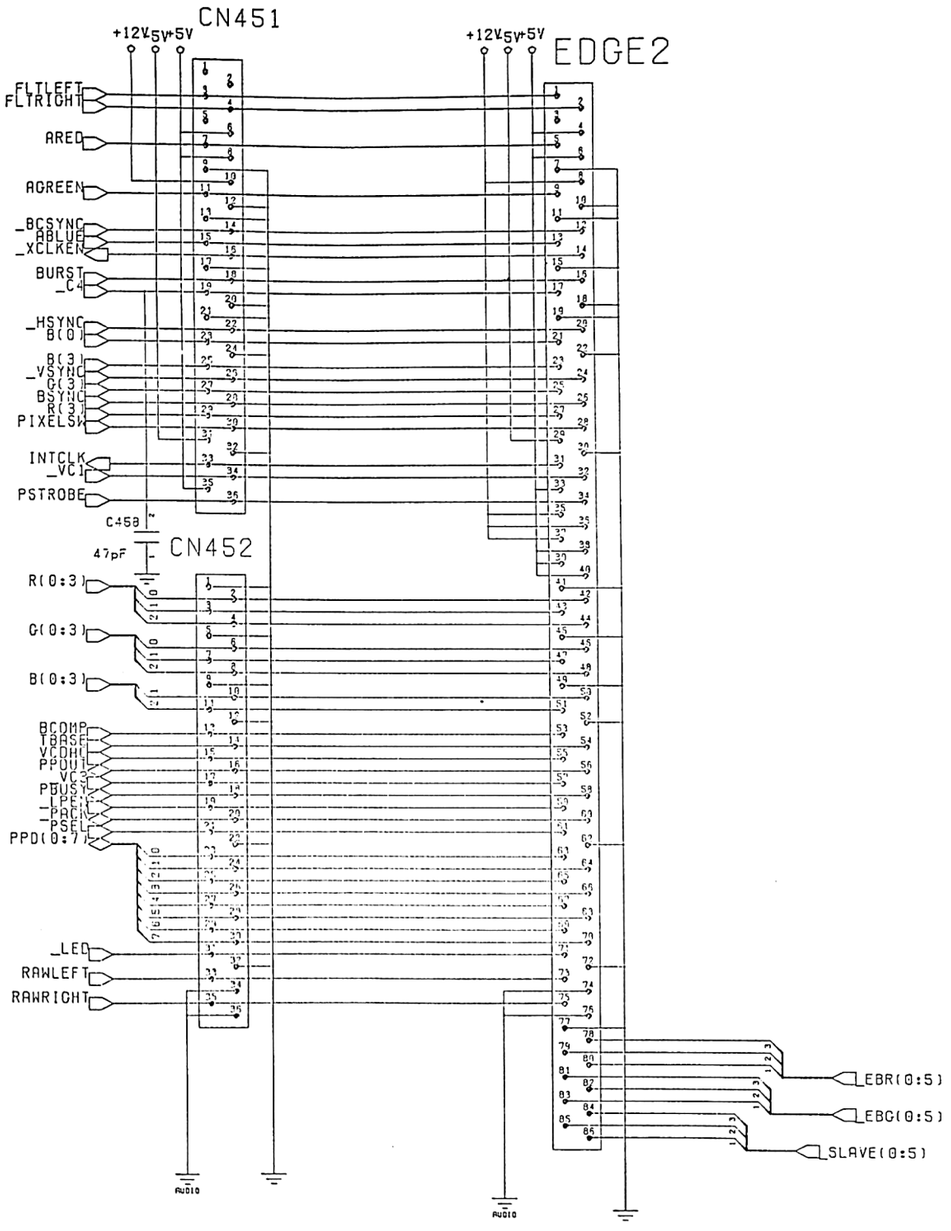

_CAS(3:0)
FASTRAMADDR(9:0)
_RAS(3:0)
WE0
R_W
1MX4
U850
U851
U852
U853
U854
U855
U856
U857
U858
U859
U860
U861
U862
U863
U864
U865
U866
U867
U868
U869
U870
U871
U872
U873
U874
U875
U876
U877
U878
U879
U880
U881
RAS
CAS
OE
D1
D2
D3
D4
RD(0:31)
+5V
C850
C852
C854
C856
C858
C860
C862
C864
C866
C868
C870
C872
C874
C876
C878
C880
.33UF

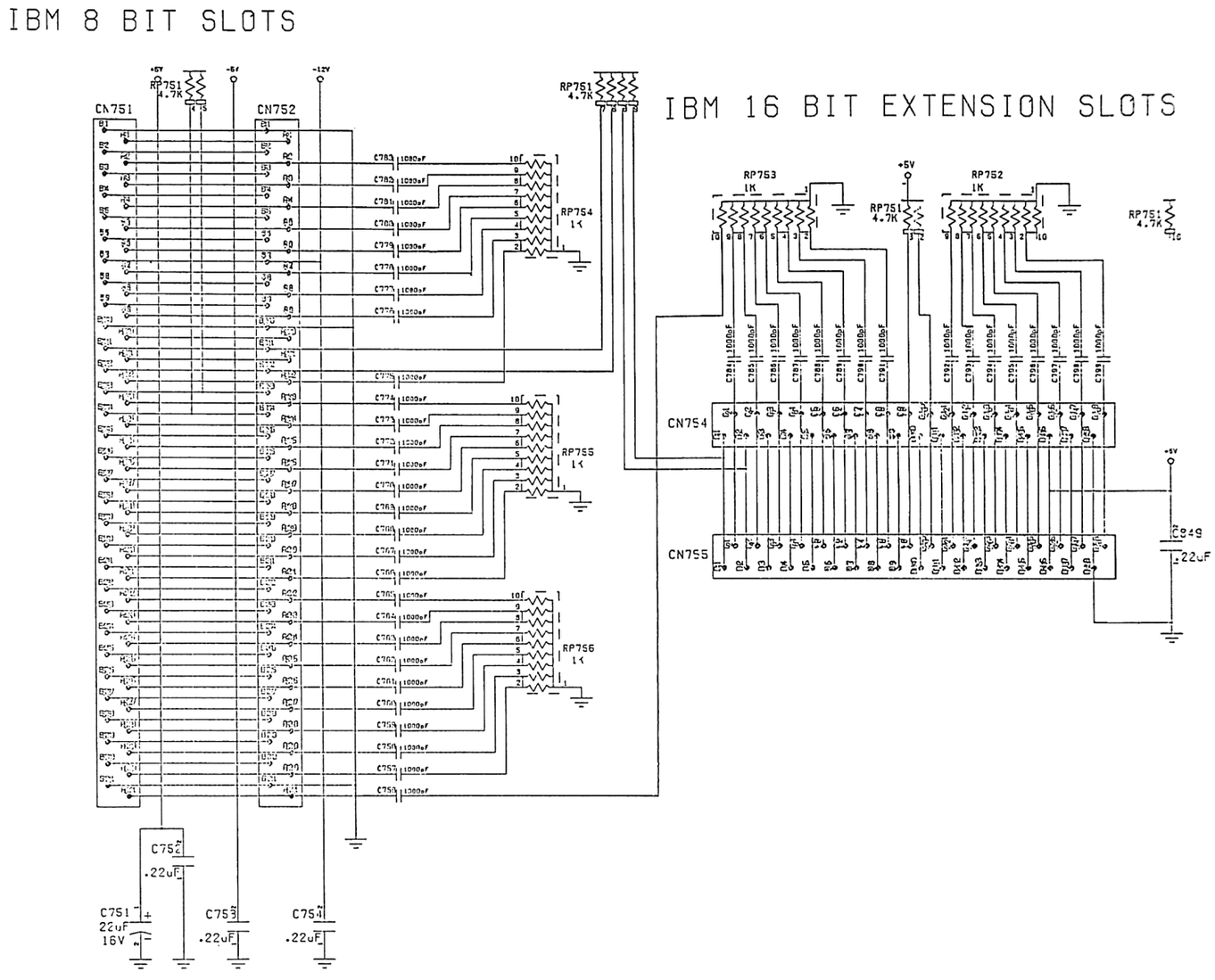

RAMSEY
U890
_BUFEN
CBREQ
CBACK
_STERM
_AS
_DSACK0
SIZ0
SIZ1
CPUCLKA
R_W
CLK90
_DMAEN
_FAIL
_WAIT
_PWRUP
_DISRAM
FC0
FC1
FC2
FC[2:0]
_CASLL
_CASLH
_CASHL
_CASHH
_CAS[3:0]
_RAS0
_RAS1
_RAS2
_RAS3
_RAS[3:0]
ASPEED
MSIZE
RP890
RP891
RP892
RP893
22
47
33
+5V
1M
4M
16M
25M
J852
RAM SIZE
J851
CPU SPEED
FASTRAMADDR(9:0)
A[31:0]
C890
.33UF
U252
74F86
R_W
_AS
_DS
D[31:0]


U891
74F245
U892
74F245
U893
74F245
U894
74F245
A0
A1
A2
A3
A4
A5
A6
A7
B0
B1
B2
B3
B4
B5
B6
B7
OE
T_R
D[0:31]
_BUFEN
BR_W1
RD(0:31)
+5V
C899
47UF
16V
C891
C892
C893
C894
.33UF

Schematic #313251, Rev. A
Sheet 1 of 2




CN451
EDGE2
+12V
5V
+5V
FLTLEFT
FLTRIGHT
ARED
AGREEN
_BCSYNC
ABLUE
_XCLKEN
BURST
_C4
_HSYNC
B(0)
B(3)
_VSYNC
G(3)
BSYNC
R(3)
PIXELSW
INTCLK
_VCC
PSTROBE
C458
47pF
CN452
R(0:3)
G(0:3)
B(0:3)
BCOMP
YBASE
VCOMP
PPWR
VCC
PBUSY
_LPEN
_PACK
_PSEL
PPD(0:7)
_LED
RAWLEFT
RAWRIGHT
AUDIO
EBR(0:5)
EBG(0:5)
SLAVE(0:5)


IBM 8 BIT SLOTS
IBM 16 BIT EXTENSION SLOTS
CN751
CN752
CN753
CN754
CN755
RP751
4.7K
RP752
1K
RP753
1K
RP754
1K
RP755
1K
RP756
1K
C751
22uF
16V
C752
.22uF
C753
.22uF
C754
.22uF
C749
.22uF
+5V
-5V
-12V

Commodore

Computer Systems Division
1200 Wilson Drive
West Chester, PA 19380